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U.S. PATENT APPLICATION

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Invention: CRYSTAL STRUCTURE

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SPECIFICATION

CRYSTAL STRUCTURE

Field of the Invention

The present invention relates to the enzyme ketopantoate hydroxymethyltransferase (KPHMT), and in particular its crystal structure and the use of this structure in drug discovery.

Background of the Invention

Pantothenic acid (vitamin B₅) is found in coenzyme A (CoA) and the acyl carrier protein (ACP), both of which are involved in fatty acid metabolism.

Pantothenic acid can be synthesised by plants and microorganisms but animals are apparently unable to make the vitamin, and require it in their diet. However, all organisms are able to convert pantothenic acid to its metabolically active form, coenzyme A.

The pathway for the synthesis of pantothenic acid is shown in Figure 1. It provides a potential target for the treatment of infectious disease, since inhibitors of the pathway should be damaging to bacteria and fungi but not to human or animal subjects infected by such microorganisms.

Of specific interest is ketopantoate hydroxymethyltransferase (KPHMT; 5,10-methylenetetrahydrofolate: α -ketoisovalerate hydroxymethyl transferase, EC 2.1.2.11). Powers *et al.* (1) showed that KPHMT is a class II aldolase that utilizes 5,10-CH₂-H₄folate (mTHF) to transfer a hydroxymethyl group to α -ketoisovalerate (α -KIVA) and thereby form ketopantoate, as shown in Figure 2. This is the first step in pantothenic acid biosynthesis. Inhibitors (whether competitive, non-competitive, uncompetitive or irreversible) of KPHMT would be of significant technical and commercial interest.

KPHMT from *Escherichia coli* has been cloned and over-expressed in *E. coli*, and was the first sequence of a pantothenate enzyme to be determined (2). The recombinant protein has 264 amino acids, corresponding to a molecular weight

of 28,237 Da. The oligomeric state of the enzyme appears to be organism specific. The homologue from the lower eukaryote, *Aspergillus nidulans*, has been expressed in an active form in *E. coli* and shown to be an octamer by gel filtration chromatography (3). However, the *E. coli* enzyme, was found to be a decamer by sedimentation equilibrium experiments, gel filtration chromatography and polyacrylamide gel electrophoresis under native conditions (1).

Very little is known about the mode of action of KPHMT, except that the addition of the hydroxymethyl group proceeds with retention of configuration (4). Mg^{2+} is essential for activity, whilst metal reconstitution experiments with Mn^{2+} , Co^{2+} and Zn^{2+} give enzyme with progressively less activity (1). To date, five ketopantoate auxotrophs, from *E. coli*, *A. nidulans*, *Datura innoxia* and two from *Salmonella typhimurium*, have been identified (5)(6). Four of these (from *E. coli*, *A. nidulans*, and the two from *Salmonella typhimurium*) have been shown to have defects in the *panB* gene which encodes KPHMT. The fifth (from the plant, *D. innoxia*) is suspected to have a *panB* defect (6). The *A. nidulans* auxotroph is caused by a deletion of Gly 168 (corresponding to Gly 205 in *E. coli*).

Until now no one has successfully determined the structure of KPHMT. This has prevented KPHMT inhibitors being developed via structure-based drug design methodologies. Therefore, knowledge of the structure of KPHMT would significantly assist the rational design of novel therapeutics based on KPHMT inhibitors.

Definitions

In the following by "binding site" we mean a site (such as an atom, a functional group of an amino acid residue or a plurality of such atoms and/or groups) in a KPHMT binding cavity which may bind to an agent compound such as a candidate inhibitor. Depending on the particular molecule in the cavity,

sites may exhibit attractive or repulsive binding interactions, brought about by charge, steric considerations and the like.

By "fitting", is meant determining by automatic, or semi-automatic means, interactions between one or more atoms of an agent molecule and one or more atoms or binding sites of the KPMT, and calculating the extent to which such interactions are stable. Various computer-based methods for fitting are described further herein.

By "root mean square deviation" we mean the square root of the arithmetic mean of the squares of the deviations from the mean.

By a "computer system" we mean the hardware means, software means and data storage means used to analyse atomic coordinate data. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means and data storage means. Desirably a monitor is provided to visualise structure data. The data storage means may be RAM or means for accessing computer readable media of the invention. Examples of such systems are microcomputer workstations available from Silicon Graphics Incorporated and Sun Microsystems running Unix based, Windows NT or IBM OS/2 operating systems.

By "computer readable media" we mean any media which can be read and accessed directly by a computer e.g. so that the media is suitable for use in the above-mentioned computer system. Such media include, but are not limited to: magnetic storage media such as floppy discs, hard disc storage medium and magnetic tape; optical storage media such as optical discs or CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

Summary of the Invention

The present invention is at least partly based on overcoming several technical hurdles: we have (i) produced KPMT

crystals of suitable quality, including crystals of selenium
atom KPHMT derivatives, for performing X-ray diffraction
analyses, (ii) collected X-ray diffraction data from the
crystals, (iii) determined the three-dimensional structure of
5 KPHMT, and (iv) identified binding sites on the enzyme which are
likely to be involved in the enzymatic reaction.

In general aspects, the present invention is concerned with
identifying or obtaining agent compounds (especially inhibitors
of KPHMT) for modulating KPHMT activity, and in preferred
10 embodiments identifying or obtaining actual agent
compounds/inhibitors. Crystal structure information presented
herein is useful in designing potential inhibitors and modelling
them or their potential interaction with the KPHMT binding
cavity. Potential inhibitors may be brought into contact with
15 KPHMT to test for ability to interact with the KPHMT binding
cavity. Actual inhibitors may be identified from among
potential inhibitors synthesized following design and model work
performed *in silico*. An inhibitor identified using the present
invention may be formulated into a composition, for instance a
20 composition comprising a pharmaceutically acceptable excipient,
and may be used in the manufacture of a medicament for use in a
method of treatment. These and other aspects and embodiments of
the present invention are discussed below.

In a first aspect, the present invention provides a crystal
25 of KPHMT having a monoclinic space group $P2_1$, and unit cell
dimensions of $a = 86.1 \text{ \AA}$, $b = 157.2 \text{ \AA}$, $c = 100.2 \text{ \AA}$ and $\beta =$
 97.4° , or more generally $a = 86.1 \pm 0.2 \text{ \AA}$, $b = 157.2 \pm 0.2 \text{ \AA}$, $c =$
 $100.2 \pm 0.2 \text{ \AA}$ and $\beta = 97.4 \pm 0.2^\circ$.

We have found that the asymmetric unit of such a crystal
30 corresponds to a KPHMT decamer which may be thought of as a
pentamer of KPHMT dimers, the dimers being related by a non-
crystallographic five-fold axis

Alternatively, or additionally, the crystal may have the
three dimensional atomic coordinates of Table 1. An

advantageous feature of the structural data according to Table 1 are that they have a high resolution of about 1.8 Å.

The coordinates of Table 1 provide a measure of atomic location in Angstroms, to a first decimal place. The coordinates are a relative set of positions that define a shape in three dimensions, so it is possible that an entirely different set of coordinates having a different origin and/or axes could define a similar or identical shape. Furthermore, varying the relative atomic positions of the atoms of the structure so that the root mean square deviation of the residue backbone atoms (i.e. the nitrogen-carbon-carbon backbone atoms of the protein amino acid residues) is less than 1.5 Å (preferably less than 1.0 Å and more preferably less than 0.5 Å) when superimposed on the coordinates provided in Table 1 for the residue backbone atoms, will generally result in a structure which is substantially the same as the structure of Table 1 in terms of both its structural characteristics and potency for structure-based design of KPHMT inhibitors. Likewise changing the number and/or positions of the water molecules and/or substrate molecules of Table 1 will not generally affect the potency of the structure for structure-based design of KPHMT inhibitors. Thus for the purposes described herein as being aspects of the present invention, it is within the scope of the invention if: the Table 1 coordinates are transposed to a different origin and/or axes; the relative atomic positions of the atoms of the structure are varied so that the root mean square deviation of residue backbone atoms is less than 1.5 Å (preferably less than 1.0 Å and more preferably less than 0.5 Å) when superimposed on the coordinates provided in Table 1 for the residue backbone atoms; and/or the number and/or positions of water molecules and/or substrate molecules is varied. Reference herein to the coordinate data of Table 1 thus includes the coordinate data in which one or more individual values of the Table are varied in this way.

Also, modifications in the KPHMT crystal structure due to e.g. mutations, additions, substitutions, and/or deletions of

amino acid residues (including the deletion of one or more KPHMT protomers) could account for variations in the KPHMT atomic coordinates. However, atomic coordinate data of KPHMT modified so that a ligand that bound to one or more binding sites of KPHMT would be expected to bind to the corresponding binding sites of the modified KPHMT are, for the purposes described herein as being aspects of the present invention, also within the scope of the invention. Reference herein to the coordinates of Table 1 thus includes the coordinates modified in this way. Preferably, the modified coordinate data define at least one KPHMT binding cavity.

In a further aspect, the invention provides a method for crystallizing a selenomethionine KPHMT derivative which comprises producing KPHMT by recombinant production in a bacterial host (e.g. *E. coli*) in the presence of selenomethionine, recovering a selenomethionine KPHMT derivative from the host and growing crystals from the recovered selenomethionine KPHMT derivative.

Thus, the selenium atom KPHMT derivative and KPHMT produced by crystallising native KPHMT (see the detailed description below) are provided as crystallised proteins suitable for X-ray diffraction analysis.

The crystals may be grown by any suitable method, e.g. the hanging drop method.

In another aspect, the invention provides a method of analysing a KPHMT-ligand complex comprising the step of employing (i) X-ray crystallographic diffraction data from the KPHMT-ligand complex and (ii) a three-dimensional structure of KPHMT to generate a difference Fourier electron density map of the complex, the three-dimensional structure being defined by atomic coordinate data according to Table 1.

Therefore, KPHMT-ligand complexes can be crystallised and analysed using X-ray diffraction methods, e.g. according to the approach described by Greer *et al.*, *J. of Medicinal Chemistry*, Vol. 37, (1994), 1035-1054, and difference Fourier electron

density maps can be calculated based on X-ray diffraction patterns of soaked or co-crystallised KPHMT and the solved structure of un-complexed KPHMT. These maps can then be used to determine whether and where a particular ligand binds to KPHMT and/or changes the conformation of KPHMT.

Electron density maps can be calculated using programs such as those from the CCP4 computing package (Collaborative Computational Project 4. The CCP4 Suite: Programs for Protein Crystallography, *Acta Crystallographica*, B50, (1994), 760-763.). For map visualisation and model building programs such as O (Jones et al., *Acta Crystallography*, A47, (1991), 119-119) can be used.

In another aspect, the present invention provides a method for identifying an agent compound (e.g. an inhibitor) which modulates KPHMT activity, comprising the steps of:

- (a) employing three-dimensional atomic coordinate data according to Table 1 to characterise at least a plurality of KPHMT binding sites;
- (b) providing the structure of a candidate agent compound;
- (c) fitting the candidate agent compound to the binding sites; and
- (d) selecting the candidate agent compound.

Preferably sufficient binding sites are characterised to define a KPHMT binding cavity.

A plurality (for example two, three or four) of spaced KPHMT binding sites may be characterised and a plurality of respective compounds designed or selected. The agent compound may then be formed by linking the respective compounds into a larger compound which maintains the relative positions and orientations of the respective compounds at the binding sites. The larger compound may be formed as a real molecule or by computer modelling.

In any event, the determination of the three-dimensional structure of KPHMT provides a basis for the identification of new and specific ligands for KPHMT e.g. by computer modelling.

More specifically, a potential modulator of KPHMT activity can be examined through the use of computer modelling using a docking program such as GFAM, DOCK, or AUTODOCK (see Walters et al., *Drug Discovery Today*, Vol.3, No.4, (1998), 160-173, and Dunbrack et al., *Folding and Design*, 2, (1997), 27-42). This procedure can include computer fitting of candidate inhibitors to KPHMT to ascertain how well the shape and the chemical structure of the candidate inhibitor will bind to the enzyme.

Also computer-assisted, manual examination of the binding cavity structure of KPHMT may be performed. The use of programs such as GRID (Goodford, *J. Med. Chem.*, 28, (1985), 349-357) - a program that determines probable interaction sites between molecules with various functional groups and the enzyme surface - may also be used to analyse the binding cavity to predict partial structures of inhibiting compounds.

Computer programs can be employed to estimate the attraction, repulsion, and steric hindrance of the two binding partners (e.g. the KPHMT and a candidate inhibitor). Generally the tighter the fit, the fewer the steric hindrances, and the greater the attractive forces, the more potent the potential modulator since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a potential drug, the more likely it is that the drug will not interact with other proteins as well. This will tend to minimise potential side-effects due to unwanted interactions with other proteins.

In one embodiment a plurality of candidate agent compounds are screened or interrogated for interaction with the binding sites. In one example, step (b) involves providing the structures of the candidate agent compounds, each of which is then fitted in step (c) to computationally screen a database of compounds (such as the Cambridge Structural Database) for interaction with the binding sites. In another example, a 3-D descriptor for the agent compound is derived, the descriptor including e.g. geometric and functional constraints derived from

the architecture and chemical nature of the binding cavity. The descriptor may then be used to interrogate the compound database, the identified agent compound being the compound which matches with the features of the descriptor. In effect, the descriptor is a type of virtual pharmacophore.

Having designed or selected possible binding partners, these can then be screened for activity. Consequently, the method preferably comprises the further steps of:

(e) obtaining or synthesising the candidate agent compound;
and

(f) contacting the candidate agent compound with KPHMT to determine the ability of the candidate agent compound to interact with KPHMT.

In step (e) the candidate agent compound may be contacted with KPHMT in the presence of a substrate, and typically a buffer, to determine the ability of the candidate agent compound to inhibit KPHMT. The substrate may be e.g., one or both of 5,10-CH₂-H₄folate, α -ketoisovalerate, or salts thereof. So, for example, an assay mixture for KPHMT may be produced which comprises the candidate inhibitor, substrate and buffer.

Instead of, or in addition to, performing e.g. a chemical assay, the method may comprise the further steps of:

(e) obtaining or synthesising the candidate agent compound;
(f) forming a complex of KPHMT and the candidate agent compound; and

(g) analysing (e.g. by the method of an earlier aspect of the invention) said complex by X-ray crystallography or NMR spectroscopy to determine the ability of the candidate agent compound to interact with KPHMT.

Detailed structural information can then be obtained about the binding of the agent compound to KPHMT, and in the light of this information adjustments can be made to the structure or functionality of the compound, e.g. to improve binding to the binding cavity. Steps (e) to (g) may be repeated and re-

repeated as necessary. For X-ray crystallographic analysis, the complex may be formed by crystal soaking or co-crystallisation.

In another aspect, the invention includes a compound which is identified as a modulator of KPHMT activity by the method of the fourth aspect.

Following identification of an inhibitor compound, it may be manufactured and/or used in the preparation, i.e. manufacture or formulation, of a composition such as a medicament, pharmaceutical composition or drug. These may be administered to individuals.

Thus, the present invention extends in various aspects not only to an inhibitor as provided by the invention, but also a pharmaceutical composition, medicament, drug or other composition comprising such an inhibitor e.g. for treatment (which may include preventative treatment) of disease such as microbial infection; a method comprising administration of such a composition to a patient, e.g. for treatment of disease such as microbial infection; use of such an inhibitor in the manufacture of a composition for administration, e.g. for treatment of disease such as microbial infection; and a method of making a pharmaceutical composition comprising admixing such an inhibitor with a pharmaceutically acceptable excipient, vehicle or carrier, and optionally other ingredients.

In another aspect, the invention relates to a method of determining three dimensional structures of KPHMT homologues of unknown structure by utilising the structural coordinates of Table 1.

For example, if X-ray crystallographic or NMR spectroscopic data is provided for a KPHMT homologue of unknown structure, the structure of KPHMT as defined by Table 1 may be used to interpret that data to provide a likely structure for the KPHMT homologue by techniques which are well known in the art, e.g. phase modelling in the case of X-ray crystallography.

One embodiment of the method comprises the steps of:

(a) aligning a representation of an amino acid sequence of a KPHMT homologue of unknown structure with the amino acid sequence of KPHMT to match homologous regions of the amino acid sequences;

5 (b) modelling the structure of the matched homologous regions of the KPHMT of unknown structure on the structure as defined by Table 1 of the corresponding regions of KPHMT; and

10 (c) determining a conformation (e.g. so that favourable interactions are formed within the KPHMT of unknown structure and/or so that a low energy conformation is formed) for the KPHMT of unknown structure which substantially preserves the structure of said matched homologous regions.

The term "homologous regions" describes amino acid residues in two sequences that are identical or have similar (e.g. 15 aliphatic, aromatic, polar, negatively charged, or positively charged) side-chain chemical groups. Identical and similar residues in homologous regions are sometimes described as being respectively "invariant" and "conserved" by those skilled in the art.

20 Preferably one or all of steps (a) to (c) are performed by computer modelling.

Homology modelling is a technique that is well known to those skilled in the art (see e.g. Greer, *Science*, Vol. 228, (1985), 1055, and Blundell et al., *Eur. J. Biochem*, Vol. 172, 25 (1988), 113).

In general, comparison of amino acid sequences is accomplished by aligning the amino acid sequence of a polypeptide of a known structure with the amino acid sequence of the polypeptide of unknown structure. Amino acids in the 30 sequences are then compared and groups of amino acids that are homologous are grouped together. This method detects conserved regions of the polypeptides and accounts for amino acid insertions or deletions.

35 Homology between amino acid sequences can be determined using commercially available algorithms. The programs *ELAST*,

gapped BLAST, *BLASTN* and *PSI-BLAST* (provided by the National Center for Biotechnology Information) are widely used in the art for this purpose, and can align homologous regions of two amino acid sequences.

5 Once the amino acid sequences of the polypeptides with known and unknown structures are aligned, the structures of the conserved amino acids in a computer representation of the polypeptide with known structure are transferred to the corresponding amino acids of the polypeptide whose structure is
10 unknown. For example, a tyrosine in the amino acid sequence of known structure may be replaced by a phenylalanine, the corresponding homologous amino acid in the amino acid sequence of unknown structure.

15 The structures of amino acids located in non-conserved regions may be assigned manually by using standard peptide geometries or by molecular simulation techniques, such as molecular dynamics (7). The final step in the process is accomplished by refining the entire structure using molecular dynamics and/or energy minimization.

20 In another aspect, the present invention provides systems, particularly a computer systems, intended to generate structures and/or perform rational drug design for KPHMT, KPHMT-ligand complexes or KPHMT homologues, the systems containing either (a) atomic coordinate data according to Table 1, said data defining
25 the three-dimensional structure of KPHMT, or (b) structure factor data for KPHMT, said structure factor data being derivable from the atomic coordinate data of Table 1.

30 In another aspect, the present invention provides computer readable media with either (a) atomic coordinate data according to Table 1 recorded thereon, said data defining the three-dimensional structure of KPHMT, or (b) structure factor data for KPHMT recorded thereon, the structure factor data being
35 derivable from the atomic coordinate data of Table 1.

By providing such computer readable media, the atomic coordinate data can be routinely accessed to model KPHMT. For

example, RASMOL (Sayle *et al.*, *TIBS*, Vol. 20, (1995), 374) is a publicly available computer software package which allows access and analysis of atomic coordinate data for structure determination and/or rational drug design.

On the other hand, structure factor data, which are derivable from atomic coordinate data (see e.g. Blundell *et al.*, in *Protein Crystallography*, Academic Press, New York, London and San Francisco, (1976)), are particularly useful for calculating e.g. difference Fourier electron density maps.

Brief Description of the Drawings

Figure 1 shows the pathway for the synthesis of pantothenic acid;

Figure 2 shows the chemical reaction between α -KIVA and 5,10-CH₂-H₄folate which is catalysed by KPHMT;

Figures 3a and b show ribbon representations of the decameric structure as viewed respectively along and from the side of the non-crystallographic five-fold axis;

Figures 4a and b show ribbon representations of respectively top and side views of a protomer;

Figure 5 shows a sequence alignment between primary structure among five members of the KPHMT family and the secondary structure of the *E. coli* enzyme;

Figure 6 shows a stereo pair wire-frame electron density map of the substrate binding site with a ketopantoate product molecule (KPL) and a metal ion believed to be Mg²⁺ on which the enzyme is dependent for its activity;

Figure 7 shows an electrostatic potential map for a protomer viewed looking towards the opening mouth of the binding cavity;

Figure 8 shows a stereo pair ribbon representation of the KPHMT binding cavity;

Figure 9 shows a schematic representation of the distorted octahedral binding site for Mg²⁺ in the KPHMT binding cavity;

Figures 10 and b show respectively side and top view stereo pair ribbon representations of the mouth of the KPHMT binding cavity; and

Figures 11a and b show stereo pair ribbon representations of respectively (a) the binding cavities of a KPHMT dimer, and (b) the interface between adjacent KPHMT dimers.

Detailed Description of the Invention

The present invention is founded on the determination of the three dimensional atomic structure of KPHMT.

Solving the Crystal Structure

1. Preparation of Recombinant KPHMT Protein

Cell Growth

3 x 15 mL starting culture of *E-coli* Hfr3000-YA139 cells with the plasmid p3E01 containing the clone pAL01 was incubated at 37 °C overnight in LB broth containing ampicillin (50 mg/mL). This was added to 3 litres of LB broth containing ampicillin (50 mg/mL) and IPTG (90 mg/mL) and incubated at 37 °C for 16 h. Selenomethionine (SeMet) protein was over-expressed in media containing selenomethionine, as well as six other amino acids (lysine, phenylalanine, threonine, isoleucine, leucine and valine) whose presence inhibit methionine biosynthesis (8) and was purified in the same way as the wild type. The cells were harvested by centrifugation at 10,000 rpm at 4 °C for 30 min. The wet cell pellet weighed approximately 9 g.

Protein Extraction

The cell pellet was resuspended in 50 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT, 1 mM ethylenediaminetetraacetic acid (EDTA) and 1 mM phenylmethylsulphonylfluoride (PMSF). The suspension was sonicated on ice for 1 s bursts every 3 s for 12 min and the lysate centrifuged at 12,000 rpm for 30 min. Nucleic acids were removed from the

supernatant by precipitation with 2% protamine sulphate (1 mL/g of cell pellet) and centrifugation at 12,000 rpm for 30 min.

The protein was precipitated from the supernatant with ammonium sulphate (2% - 60% saturation) and centrifugation at 12,000 rpm for 30 min. The protein pellet was dissolved in 30 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA and dialysed, overnight against 25 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA. The volume of the dialysed protein was reduced to below 20 mL by ultrafiltration.

Pellets that contained cell debris, 2% protamine sulphate precipitant and 0 - 25% ammonium sulphate precipitant were dissolved in a total volume of 30 mL of 100 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA, pooled and dialysed, overnight, against 25 mM phosphate buffer (pH 7) containing 1 mM DTT and 1 mM EDTA. The volume of the dialysed mixture was reduced to below 20 mL by ultrafiltration and filtered through a 0.2 μ m filter. The protein was purified by FPLC.

Hiprep Q XL anion exchange chromatography

The sample, in less than 10 mL, was loaded, using a 10 mL superloop, onto a Hiprep 16/10 Q XL column equilibrated in starting buffer which consisted of 90% buffer A, containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA, and 10% buffer B containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA and 1 M potassium chloride (KCl). KPHMT was eluted in a step gradient of 0.1 - 1 M KCl in 12 column volumes (240 mL) and at a flow rate of 2.5 mL/min. The gradient was shaped as indicated below. KPHMT eluted in a single peak at about 0.4 M KCl. Eluate fractions were assessed for KPHMT content by SDS-PAGE. Fractions containing KPHMT were pooled and dialysed overnight against starting buffer.

Source 15Q anion exchange chromatography

The sample, in less than 10 mL, was loaded, using a 10 mL superloop, onto a Source 15Q XV 16/10 column equilibrated in starting buffer which consisted of 90% buffer A, containing 25 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA, and 10% buffer B containing 25 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA and 1 M KCl. KPHMT was eluted of the Source 15Q XV 16/10 column in the same way it was eluted of the Hiprep 16/10 Q XL column. KPHMT eluted in a single peak at about 0.4 M potassium chloride.

Elate fractions were assessed for KPHMT content by SDS-PAGE. Fractions containing KPHMT were pooled and dialysed overnight against starting buffer.

KCl gradient used in anion exchange chromatography of KPHMT:

- step 1 - 0.1 to 0.4 M KCl (0 - 50 mL)
- step 2 - at 0.4 M KCl (51 - 110 mL)
- step 3 - 0.4 to 0.6 M KCl (110 - 120 mL)
- step 4 - at 0.6 M KCl (120 - 180 mL)
- step 5 - 0.6 to 1 M KCl (180 - 190 mL)
- step 6 - at 1 M KCl (190 - 240 mL)

Hiload 16/60 superdex 200 pg gel filtration chromatography

Sample was loaded in less than 10 mL onto a Hiload 16/60 superdex 200 pg equilibrated in buffer containing 50 mM potassium phosphate buffer (pH 6.9), 1 mM DDT and 1 mM EDTA. A constant flow rate of 0.5 mL per minute was maintained and 3 mL fractions were collected. Fractions containing KPHMT were determined by SDS-PAGE, pooled and concentrated by ultrafiltration to greater than 5 mg/mL. 26 mg of protein was obtained from a 3 L cell culture.

2. Protein Crystallisation

The sample of KPHMT was concentrated to 24 mg/mL in 40 mM of ketopantolactone (KPL; product) and 50 mM HEPES pH 7.4. Diffraction-quality single crystals of KPHMT were obtained by

the hanging-vapor diffusion method at 4 °C. To make a drop, one volume (1.5 µl) of protein solution was placed on a siliconised cover slide, and the equivalent reservoir solution was added at 19 °C. Reservoir solution contained 9% (w/v) PEG 8000, 50 mM NaCitrate (pH 6.8), 50-100 mM Na(CH₃CO₂) and 200 mM NaCl. The plate was sealed within 1 minute and left at 4 °C. After 2 hours the plate was placed into a polystyrene box, then the box was sealed and placed at 19 °C. Single crystals with dimensions of about 0.5 x 0.3 x 0.1 mm appeared within one or two days. These belonged to the monoclinic space group P2₁ with cell parameters $a = 86.1$ Å, $b = 157.1$ Å, $c = 100.1$ Å and $\beta = 97.4^\circ$, and accommodated one decameric enzyme per asymmetric unit, with a solvent content of 49%.

The SeMet KPHMT crystals, which were prepared in a similar way to native KPHMT crystals, seldom grew larger than 0.3 mm or thicker than about 30 µm. The SeMet KPHMT stock solution contained 2 mM KPL and 10 mM DTT to protect the Se atoms from oxidation.

2.1. Data Collection

The structure of KPHMT was solved by the MAD method (9) using the SeMet derivative. Data to 0.1 Å resolution were collected at 100 K, at three wavelengths on Station 18-ID of the Structural Biology Centre at the Advanced Photon Source of Argonne National Laboratory, Chicago, US. Crystals of KPHMT were cryo-protected by a protocol of gradual soaking in the cryo-protectant PEG400. Each crystal was placed in 20 ml of crystallisation solution, and the concentration of PEG400 was gradually increased to 20% (v/v) in 5% increments. The soaking time at each PEG400 concentration was a minimum of 15 minutes. At each concentration step, KPL was added to a concentration of 2 mM. The flash-cooled crystals were used for data collection.

An X-ray fluorescence spectrum was recorded and used to select wavelengths for subsequent MAD data collection. Data were collected at the Se absorption edge $\lambda_0 = 0.97939$ Å, the

absorption peak $\lambda_p = 0.97927 \text{ \AA}$ and at remote reference wavelength $\lambda_r = 0.9393 \text{ \AA}$. The diffraction data were indexed and integrated using the *D*TREK* suite (10), and reflexions were indexed and integrated using *MOSFLM* (11). The three data sets were scaled to the remote data-set using *SCALA* (12) and structure-factor amplitudes were calculated using *TRUNCATE* (13). Statistics of the processed data are listed in Table 2.

The native data set was collected to 1.8 \AA resolution on Station 19-ID. A cryo-protectant solution for the native crystals contained 9% PEG8000, 50 mM NaCitrate (pH 6.8), 50-100 mM $\text{Na}(\text{CH}_3\text{CO}_2)$, 200 mM NaCl, and 20% of PEG400.

4. Structure Determination and Refinement

160 out of the 180 Se sites in the asymmetric unit were found with the program *SnB* (14) using direct methods and anomalous difference data of λ_p SeMet. Data were phased with *SHARP* (15) using all three wavelength data sets, which also revealed two additional Se sites in the residual maps.

Data collected at the remote wavelength were treated as the reference data set and resolution limits of 40 to 2.3 \AA were imposed. Experimental values of the anomalous dispersion (f' and f'' in Table 2) estimated from fluorescence spectra were used and refined during analysis. The resulting values are very similar to the theoretical values and are given in Table 2.

Experimental phases were improved by solvent flattening using *SOLOMON* (CCP4, 1994), via the *SUSHI* graphical user interface (La Fortelle et al., 1997) with a solvent content of 450%. The final electron-density map was easily interpretable and the whole polypeptide chain was assigned based on the initial electron density map.

The polypeptide chain was fitted in the MAD electron density map using program *O* (16). Rounds of maximum likelihood refinement with *REFMAC* (17) were alternated with visual inspection of electron density and manual rebuilding of side

chains. Several rounds of simulated annealing with CNS (18) were included to refine the position of the main chain properly.

Table 1 provides the atomic coordinates of the final model.

The quality of the final model was assessed from Ramachandran plots and the analysis of the model geometry was carried out with the program *PROCHECK* (19). 10% of the reflections were set aside for R_{free} calculations. The plot indicated that 90.2% of the residues lay in the favourable regions and 9.8% in the allowed regions. The final R and R_{free} factors of the structure for all reflections between 75.0 and 1.3 Å resolutions were 0.229 and 0.263, respectively. The structural model for KPHMT consists of a decamer in the asymmetric unit with 2,649 amino residues, 13,130 protein atoms (non-hydrogen), 199 substrate atoms (non-hydrogen), 1,611 water molecules and 10 metal ions. The last cycle of the refinement without NCS-restraints gave a reasonable stereo-chemistry by using 222,076 unique reflections in the range of 75.0 to 1.5 Å resolution. The root mean-square deviation from standard values are 0.006 Å in bond distances (1-3 distance), 1.2° in angle distances (1-3 distance), and 22.1° in dihedral angles (planar 1-4 distance). From a Ramachandran plot the model was considered to exhibit a good stereo-chemistry.

Structural Characterisation

The crystal structure of KPHMT is based on a decameric asymmetric unit formed by a pentamer of dimers related by a non-crystallographic five-fold axis. Figures 3a and b show ribbon representations of the decameric structure as viewed respectively along and from the side of the non-crystallographic five-fold axis.

The dimensions of the decamer are approximately 100 x 100 x 75 Å. The accessible area of the decamer, 83,200 Å², is small considering the surface area for each protomer (i.e. monomer subunit), 10,800 Å², while the buried surface of each protomer is 23 . The close packing of the protomers explains the

protein's remarkable resistance to denaturation by heat and urea (20). The interface between protomers in each dimeric unit is large (1140 Å²) and tightly organised, involving 88 (20 hydrophilic and 68 hydrophobic) interactions. However, the interface between protomers in the pentamer is smaller (760 Å²) and involves only 20 (6 hydrophilic and 14 hydrophobic) interactions. For this reason, we believe that the dimer is the functional unit. This is corroborated by the homologue from *Aspergillus nidulans*, which is an octamer (3).

Each protomer is approximately spherical and has overall dimensions of 50 x 50 x 40 Å. Ribbon representation top and side views of a protomer are presented in Figures 4c and d. The tertiary structure is an $\alpha\beta_8$ (TIM (triose phosphate isomerase) barrel with an extra α -helix located at the base of the β -barrel (11). The barrel consists of eight parallel β -strands surrounded by eight α -helices.

Sequence Alignment

If proteins or translated gene-sequences have been identified using a PSI-BLAST search, with high enough similarity to be classified as members of the KPHMT family (11). The enzyme is found in bacteria, lower eukaryotes (e.g. yeast) and in the plant *Arabidopsis thaliana* but is not found in *Caenorhabditis elegans*, *Drosophila melanogaster* or, as yet, in other higher eukaryotes. This is consistent with the end product of this pathway being a vitamin. We have analyzed the sequences from the 35 members of this family to identify residues important to the mode of action. Correlation between primary structure among five members of the KPHMT family and the secondary structure of the *E. coli* enzyme is shown in Figure 5. The consensus sequence, generated by ClustalW (23) with the sequences of the 35 members, highlights that of the 264 residues, 23 residues are invariant while an additional 77 are conserved. Six conserved sequence motifs, at least six residues in length, were also identified. These are ¹LeuValGlyAspSerLeuGlyMet⁴⁰,

¹⁴¹ValLysIleGluGlyGly¹⁴⁶, ¹⁴⁵GlyHisXGlyLeuThrProGln¹⁴⁹ (where X is a hydrophobic residue), ¹⁴⁸GlyGlyTyrLysValGlnGly¹⁵⁴, ¹⁶⁰IleGlyIleGlyAlaGly²⁰⁵ and ²⁰³AspGlyAsnIleLeuVal²¹⁴. The first two of the six motifs contain residues shown in the crystal structure to be involved in binding the ketopantoate (and hence the substrate) or metal ion.

Deletion of residue Gly 168 (which corresponds to Gly 205 in the fifth motif given above) in *A. nidulans* has been shown to prevent cell growth (3). This residue is invariant in 34 out of the 38 KPHKT sequences and mutated to serine in a potentially inactive isoform from *Pseudomonas aeruginosa*. Thus, the motif may be required for correct folding of the protein.

Substrate Binding Site

The substrate binding site is located in a large cavity at the protein C-terminus ends of the β -strands. The cavity extends almost one quarter the distance in to the protein and is about 20 Å in length and about 10 Å x 15 Å in transverse section. The substrate is believed to bind before the cofactor, because the cofactor binds at the mouth of the cavity effectively blocking access to the cavity. Figure 6 is a stereo pair wire-frame electron density map of the substrate binding site showing a ketopantoate product molecule (KPL) and a metal ion believed to be Mg^{2+} on which the enzyme is dependent for its activity.

The electrostatic potential map for a protomer (shown in Figure 7) demonstrates that the opening mouth of the binding cavity is highly charged. The surface contains eight highly conserved residues that hydrogen bond to each other and the substrate or product. As shown in Figure 8, which is a stereo pair ribbon representation of the binding cavity, Asp 45 and Asp 84 hydrogen bond to Gln 142 and Lys 112, respectively, while Ser 46, Glu 131 and Lys 112 hydrogen bond to ketopantoate and the residues Tyr 25, His 136 and Asp 84.

The Mg^{2+} ion is bound in a distorted octahedral binding site of the binding cavity. Residues, Asp 46 and Asp 84 occupy axial and equatorial positions, respectively, while Glu 114 coordinates to Mg^{2+} through a water molecule that occupies an equatorial position. The keto and carboxyl groups of the product take up an axial and an equatorial position, respectively and the last equatorial position is occupied by a water molecule. Figure 9 shows a schematic representation of the distorted octahedral binding site.

The coordination around Mg^{2+} is distorted due to hydrogen bonding between Glu 181 and the hydroxymethyl group of the product. We believe the geometry of the Mg^{2+} ion is less distorted, and hence lower in stabilization energy, when ketopantoate (product) is replaced by α -KIVA (substrate). This may be one mechanism by which the enzyme senses and releases the product.

Cofactor Binding Site

As yet, a 5,10- CH_2 - H_4 folate cofactor binding motif has not been identified by X-ray crystallography. Nonetheless, we have developed an approach to find the cofactor binding site.

Initially we compared our structure to structures of tetrahydrofolate-dependent enzymes bound to folate analogues. The January, 2001 release of the Protein Data Bank (PDB) contains seven enzymes that bind tetrahydrofolate (THF). These are dihydrofolate reductase (DHFR), phosphoribosylglycinamide formyltransferase (PRGF), methylenetetrahydrofolate dehydrogenase (MTHD), glycinamide ribonucleotide transformylase (GRTE), thymidylate synthase (TS), serine hydroxymethyl transferase (SHMT), and methylenetetrahydrofolate reductase (MTR). A structural similarity search by the program DALI (24) shows that only four of the above proteins appear to be similar to KPHMT. These are MTR, DHFR, PRGF and SHMT, but for MTR, DHFR and PRGF, the distance of the folate cofactor binding site is

too far from the substrate binding site relative to the corresponding distance in KPHMT.

This left SHMT, which appears to be functionally similar to KEHMT, although SHMT is a class I aldolase (KPHMT is a class II aldolase) because pyridoxal phosphate is used in addition to the folate cofactor. Given the crystal structures of SHMT from *E. coli* bound to the folate, 5-formyl-THF (25) and TS bound to 5,10-CH₂-H₄folate or analogues thereof (26), we were able to propose a tentative model for the binding 5,10-CH₂-H₄folate to KPHMT.

Next, using multiple sequence alignment (see Figure 5) to identify residues implicated in cofactor binding, we were able to fine tune the proposed model for cofactor binding. The fine tuned model is shown in Figures 1a and b which are side and top view stereo pair ribbon representations of the mouth of the binding cavity.

In this model, 5,10-CH₂-H₄folate (mTHF) binds near the entrance to the binding cavity at a depth of 15Å. The distance between the target carbon atoms, C11 in 5,10-CH₂-H₄folate and C3 in the substrate, is about 4.5Å, a favourable distance for a reaction to occur.

The cofactor makes relatively few contacts with the protein. Interestingly, these contacts are located in regions of undefined secondary structure, namely, the loop regions that compose the entrance to the binding cavity. The loops in question are between β5 and α7 (L1), α9 and α10 (L2) and the C-terminus (L3). Being regions of undefined secondary structure these loops may be highly flexible and thus, undergo structural changes upon cofactor binding. We have identified conserved residues that impart either flexibility or make strong interactions that may impart rigidity (definition) to these loops. Thus we believe that upon cofactor binding these loops undergo discrete structural changes.

Loop, L1, contains two of the six above-mentioned conserved motifs. The first half of this loop, is located deeper in the

binding cavity and contains Gln 142, which H-bonds to the axial Mg^{2+} ligand, Asp 45. This half of the loop is probably rigid since it contains a turn between Asn 145 and Gly 149. The second half of the loop consists predominantly of the second motif. Both ends of this motif, namely residues Gly 148 (invariant) and Gly 154 may make this part of the loop flexible. Gln 153 is implicated in a hydrogen bond to the amide of Lys 151, which upon cofactor binding may move to interact with the polyglutamate chain of the cofactor (see below for more discussion of this). Loop, L2, is relatively long with little sequence conservation. Invariant Gly 220 may impart some flexibility to this loop while residues Asp 217, Lys 218 and Phe 229 are implicated in binding the cofactor. In L2, invariant Pro 257 is in van der Waals contact with Gly 205 and Gln 211, while His 261 hydrogen bonds to Lys 218 and Glu 163. Thus, the deletion of Gly 163 in *A. nidulans* would lead to a distortion in the loop between $\beta 7$ and $\beta 8$ which may in turn lead to a disordering in adjacent loops such as L3 which could potentially prevent cofactor from binding. We, therefore propose that the *panB* auxotroph from *A. nidulans* is caused by the inability of the mutant KPHMT enzyme to bind the cofactor and therefore to function.

There are four main protein-cofactor interactions, namely, three hydrogen bonds and a π -stacking interaction. The nitrogen atom at N2 of 5,10- CH_2 - H_4 folate hydrogen bonds to Asp 217, while the side chain carboxyl group of the first glutamate hydrogen bonds to the carboxyl group of Tyr 150, and Lys 218. A stronger interaction is a π -stacking or hydrophobic interaction between the *p*-aminobenzoic acid (PABA) ring of the cofactor and the highly conserved residues Tyr 150 and Phe 229. Tyr 150 or phenylalanine, which in this instance is a functional replacement, is found at this position in 31 out of the 35 KPHMT sequences discussed above, while Phe 229 is found at this position in 34 out of the 35 KPHMT sequences. Interestingly, crystal structures of the THF-dependent enzymes, TS and SHMT,

with cofactor analogues bound, also implicate a π -stacking or hydrophobic interaction between the PABA ring and a tyrosine or phenylalanine (25). It would appear that nature has converged on this mechanism to bind folate cofactors.

Most folate-dependent enzymes have a higher affinity for the polyglutamate form of the folate cofactor, with the greatest increase in affinity occurring with two or three glutamate residues (27). Presumably, the polyglutamate tail increases the affinity for enzyme through interactions with surface positive charges. In the crystal structure of the bifunctional enzyme dihydrofolate reductase-thymidylate synthase from *Leishmania major*, the polyglutamate tail of dihydrofolate makes few specific contacts but rather is held in place by the positive charge of the local electrostatic field (28). We have identified four positive residues in KPHMT that could interact with the polyglutamate tail. These are Lys 151, Arg 155 (in loop L1), Lys 211 (in loop L2) and His 261 (in loop L3).

KPHMT Catalysis

KPHMT catalyses the transfer of a hydroxymethyl group from cofactor (5,10- $\text{CH}_2\text{-H}_4\text{folate}$) to substrate (α -KIVA). The transferase reaction is an aldol reaction, namely deprotonation of the C3- carbon of α -KIVA followed by nucleophilic attack on the cofactor. The crystal structure of the apt enzyme gives insights into the first stage in the enzyme mechanism, namely, activation of substrate and cofactor.

The C3 carbon is intrinsically acidic, through conjugation of the carboxyl and keto group, however, its acidity is enhanced by coordination of the substrate to the magnesium ion. Magnesium coordination also anchors and orients the substrate for subsequent deprotonation and nucleophilic attack. Also, the increase in distortion from octahedral geometry between substrate and product bound to the ion may be one mechanism by which the enzyme senses and releases product. The basic residue involved in abstraction of the C-3 proton of α -KIVA is believed

to be Glu 181. The basicity of this residue is enhanced by a network of hydrogen bonds connecting residue Glu 181 with residues His 136 and Lys112, which constitute an invariant triad. In the crystal structure of the apo enzyme, Glu 181 is involved in a hydrogen bond with the hydroxymethyl group of the product ketopantoate - giving rise to the greater distortion from octahedral geometry. A final role for this versatile residue is as the acid in the protonation of N10 of 5,10-CH₂-H₄folate. Kallen and Jencks (29) have concluded that the reactive component of the 5,10-CH₂-H₄folate cofactor is the iminium intermediate, formed by breakage of the C11-N10-bond and protonation of N10. This is supported by the crystal structure of TS from *Lactobacillus casei* where the imidazolidine ring has opened and the iminium intermediate has been hydrated (26). Thus, Glu 181 is believed to abstract a proton from α -KIVA and supply it to the cofactor.

Evidence for Cooperativity

KPHMT, the first enzyme in the pathway for the synthesis of pantothenic acid (see Figure 1), is inhibited by later intermediates, namely pantoate, pantothenate and CoA (1). This is most probably linked to the decameric architecture of the enzyme and involves multiple binding sites for effectors such as later pathway intermediates. All three, pantoate, pantothenate and CoA exhibit negative feedback, decreasing V_{max} , increasing K_m and enhancing cooperativity for the substrate. We believe we have found evidence, albeit tentative, of communication between protomers, a pre-requisite for cooperativity.

As pointed out earlier, the interface between protomers in the dimeric unit is tightly organised, involving 88 (20 hydrophilic and 68 hydrophobic) interactions. In particular one network of hydrogen bonds links the binding cavities of the vertically adjacent protomers. In the crystal structure of the apo enzyme, the products in the two vertically adjacent binding cavities are separated by only 31 Å. The H-bond network extends

from ketopantoate to Ser 46 then Tyr 25 and His 68 of one subunit to Tyr 67 then His 68 then Tyr 25 then Ser 46 and finally ketopantoate of the next subunit. In the multiple sequence alignment discussed above all residues except Tyr 67 are conserved. An interaction between Asp 26 of one subunit and His 68 of the next could replace this interaction in organisms where there is no residue at position 67 able to H-bond to His 68. The alternate H-bond network would then extend from keptanoate to Ser 46 then Tyr 25 then Asp 26 of one subunit to His 68 then Tyr 25 then Ser 46 and finally keptanoate of the next subunit (see Figure 11b which is a stereo pair ribbon representation of the binding cavities of a modified KPHMT dimer).

We believe we have also identified communication between subunits within the same pentamer. This interface is close to the opening to the binding cavity, the C-terminus (loop, L3), loop, L1 and the N-terminus of the adjacent subunit (see Figure 11k which is a stereo pair ribbon representation of the interface between adjacent KPHMT dimers). Binding of cofactor and substrate would affect the structure of loops, L1 and L3 and thus affect the interaction at this interface. Of particular note, is the region within loop, L1 consisting of residues Gly 138 to Gln 158. Residues, Gln 142 and Tyr 150 are respectively implicated in interacting with Mg^{2+} (indirectly) and cofactor. We have also identified a residue, Lys 151, that in the crystal structure of the apo enzyme H-bonds across the interface to Thr 5 of the adjacent dimer. We speculate that binding of cofactor will cause loop L1 to move in this region, the Lys 151 - Thr 5 interaction to break, and a new interaction between Lys 151 and the polyglutamate tail of the cofactor to form.

Structure-Based Drug Design

Determination of the 3D structure of KPHMT provides important information about the binding sites of KPHMT, particularly when comparisons are made with similar enzymes.

This information may then be used for rational design of KPHMT inhibitors, e.g. by computational techniques which identify possible binding ligands for the binding sites, by enabling linked-fragment approaches to drug design, and by enabling the identification and location of bound ligands using X-ray crystallographic analysis. These techniques are discussed in more detail below.

Greer *et al.* describes an iterative approach to ligand design based on repeated sequences of computer modelling, protein-ligand complex formation and X-ray crystallographic or NMR spectroscopic analysis. Thus novel thymidylate synthase inhibitor series were designed *de novo* by Greer *et al.*, and KPHMT inhibitors may also be designed in the this way. More specifically, using e.g. GRID on the solved 3D structure of KPHMT, a ligand (e.g. a potential inhibitor) for KPHMT may be designed that complements the functionalities of the KPHMT binding site(s). The ligand can then be synthesised, formed into a complex with KPHMT, and the complex then analysed by X-ray crystallography to identify the actual position of the bound ligand. The structure and/or functional groups of the ligand can then be adjusted, if necessary, in view of the results of the X-ray analysis, and the synthesis and analysis sequence repeated until an optimised ligand is obtained. Related approaches to structure-based drug design are also discussed in Bohacek *et al.*, Medicinal Research Reviews, Vol.16, (1996), 3-59.

As a result of the determination of the KPHMT 3D structure, more purely computational techniques for rational drug design may also be used to design KPHMT inhibitors (for an overview of these techniques see e.g. Walters *et al.*). For example, automated ligand-receptor docking programs (discussed e.g. by Jones *et al.* in Current Opinion in Biotechnology, Vol.6, (1995), 652-656) which require accurate information on the atomic coordinates of target receptors may be used to design potential KPHMT inhibitors.

Linked-fragment approaches to drug design also require accurate information on the atomic coordinates of target receptors. The basic idea behind these approaches is to determine (computationally or experimentally) the binding locations of plural ligands to a target molecule, and then construct a molecular scaffold to connect the ligands together in such a way that their relative binding positions are preserved. The connected ligands thus form a potential lead compound that can be further refined using e.g. the iterative technique of Greer *et al.*. For a virtual linked-fragment approach see Verlinde *et al.*, *J. of Computer-Aided Molecular Design*, 6, (1992), 131-147, and for NMR and X-ray approaches see Shuker *et al.*, *Science*, 274, (1996), 1531-1534 and Stout *et al.*, *Structure*, 6, (1998), 339-345. The use of these approaches to design KPHMT inhibitors is made possible by the determination of the KPHMT structure.

Many of the techniques and approaches to structure-based drug design described above rely at some stage on X-ray analysis to identify the binding position of a ligand in a ligand-protein complex. A common way of doing this is to perform X-ray crystallography on the complex, produce a difference Fourier electron density map, and associate a particular pattern of electron density with the ligand. However, in order to produce the map (as explained e.g. by Blundell *et al.*) it is necessary to know beforehand the protein 3D structure (or at least the protein structure factors). Therefore, determination of the KPHMT structure also allows difference Fourier electron density maps of KPHMT-ligand complexes to be produced, which can greatly assist the process of rational drug design.

The approaches to structure-based drug design described above all require initial identification of possible compounds for interaction with target bio-molecule (in this case KPHMT). Sometimes these compounds are known e.g. from the research literature. However, when they are not, or when novel compounds are wanted, a first stage of the drug design program may involve

computer-based *in silico* screening of compound databases (such as the Cambridge Structural Database) with the aim of identifying compounds which interact with the binding site or sites of the target bio-molecule. Screening selection criteria may be based on pharmacokinetic properties such as metabolic stability and toxicity. However, determination of the KPHMT structure allows the architecture and chemical nature of each KPHMT binding site to be identified, which in turn allows the geometric and functional constraints of a descriptor for the potential inhibitor to be derived. The descriptor is, therefore, a type of virtual 3-D pharmacophore, which can also be used as selection criteria or filter for database screening.

While the invention has been described in conjunction with the exemplary embodiments described above, many equivalent modifications and variations will be apparent to those skilled in the art when given this disclosure. Accordingly, the exemplary embodiments of the invention set forth are considered to be illustrative and not limiting. Various changes to the described embodiments may be made without departing from the spirit and scope of the invention.

The references in the above text and listed below are incorporated by reference.

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TABLE 1

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REMARK coordinates from minimization and B-factor refinement
REMARK refinement resolution: 500.0 - 1.8 Å
REMARK starting r= 0.3289 free_r= 0.3635
REMARK final r= 0.2292 free_r= 0.2678
REMARK rmsd bonds= 0.005641 rmsd angles= 1.11562
REMARK B rmsd for bonded mainchain atoms= 1.325 target= 1.5
REMARK B rmsd for bonded sidechain atoms= 2.001 target= 2.0
REMARK B rmsd for angle mainchain atoms= 2.071 target= 2.0
REMARK B rmsd for angle sidechain atoms= 2.863 target= 2.5
REMARK target= ml1 final wa= 1.10321
REMARK final rweight= 0.0678 (with wa= 1.10321)
REMARK md-method= torsion annealing schedule= constant
REMARK starting temperature= 1000 total md steps= 1 * 100
REMARK cycles= 2 coordinate steps= 20 B-factor steps= 10
REMARK sq= P2(1) a= 86.074 b= 157.170 c= 100.181 alpha= 90 beta= 97.44 gamma= 90
REMARK topology file 1 : CNS_TOPPAR:protein.top
REMARK topology file 2 : CNS_TOPPAR:dna-rna.top
REMARK topology file 3 : CNS_TOPPAR:water.top
REMARK topology file 4 : CNS_TOPPAR:ion.top
REMARK topology file 5 : ./TOPP_PARM:ekpl.top
REMARK parameter file 1 : CNS_TOPPAR:protein_rep.param
REMARK parameter file 2 : CNS_TOPPAR:dna-rna_rep.param
REMARK parameter file 3 : CNS_TOPPAR:water_rep.param
REMARK parameter file 4 : CNS_TOPPAR:ion.param
REMARK parameter file 5 : ./TOPP_PARM/ekpl.param
REMARK molecular structure file: generate.mtf
REMARK input coordinates: generate.pdb
REMARK reflection file: ./int/perblio
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 1.8
REMARK initial B-factor correction applied to fobs :
REMARK B11= -1.331 B22= -2.174 B33= 3.425
REMARK B12= 0.000 B13= 1.230 B23= 0.000
REMARK B-factor correction applied to coordinate array B: 0.284
REMARK bulk solvent density level= 1.002735 e/Å³, B-factor= 64.435 Å²
REMARK reflections with Fobs/sigma_F < 0.0 rejected
REMARK reflections with Fobs < 100.0 * rms-Fobs rejected
REMARK theoretical total number of reflections in resol. range: 243584 ( 109.0 % )
REMARK number of unobserved reflections (no entry or (F1=0): 14308 ( 5.9 % )
REMARK number of reflections rejected: 0 ( 0.0 % )
REMARK total number of reflections used: 229076 ( 94.1 % )
REMARK number of reflections in working set: 206168 ( 84.7 % )
REMARK number of reflections in test set: 22908 ( 9.4 % )
CRYST1 86.074 157.170 100.181 90.00 97.44 90.00 P 21
REMARK FILENAME="refine.pdb"
REMARK DATE:17-Oct-00 01:40:10 created by user: inouet
REMARK VERSION:1.0
ATOM 1 CB MET 1 1.111 12.162 69.884 1.00 67.43
ATOM 2 CG MET 1 0.567 11.220 70.906 1.00 69.43
ATOM 3 SD MET 1 1.512 11.428 72.507 1.00 72.24
ATOM 4 CE MET 1 3.012 10.536 73.306 1.00 71.04
ATOM 5 C MET 1 1.112 10.813 67.848 1.00 63.63
ATOM 6 O MET 1 2.145 10.936 68.998 1.00 63.58
ATOM 7 N MET 1 -0.874 11.909 68.546 1.00 65.58
ATOM 8 CA MET 1 0.000 12.042 68.480 1.00 65.57
ATOM 9 N LYS 2 0.831 9.631 63.271 1.00 61.30
ATOM 10 CA LYS 2 1.000 9.579 61.759 1.00 59.18
ATOM 11 CG LYS 2 1.416 7.568 63.886 1.00 59.31
ATOM 12 CD LYS 2 3.111 6.171 60.610 1.00 60.91
ATOM 13 CE LYS 2 3.805 7.096 71.323 1.00 61.86
ATOM 14 CG LYS 2 2.014 6.972 71.565 1.00 61.31
ATOM 15 NH LYS 2 3.311 5.457 71.377 1.00 61.30
ATOM 16 O LYS 2 0.813 7.577 67.903 1.00 59.44
ATOM 17 C LYS 2 -0.879 6.631 63.549 1.00 61.08
ATOM 18 N PRO 3 0.031 7.953 65.749 1.00 59.60
ATOM 19 CA PRO 3 -0.630 7.607 61.790 1.00 49.24
ATOM 20 CG PRO 3 0.603 9.074 60.034 1.00 47.80
ATOM 21 CD PRO 3 0.347 8.971 63.044 1.00 47.80
ATOM 22 CE PRO 3 -0.363 7.717 63.455 1.00 47.73
ATOM 23 C PRO 3 -0.391 10.240 65.014 1.00 47.70
ATOM 24 O PRO 3 -1.152 10.203 65.547 1.00 47.70
ATOM 25 N THR 4 0.177 11.802 64.380 1.00 51.12
ATOM 26 CA THR 4 -0.265 12.586 64.184 1.00 48.13
ATOM 27 CG THR 4 0.316 13.872 64.113 1.00 48.13
ATOM 28 OG1 THR 4 1.113 13.866 65.403 1.00 29.60

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ATOM	29	CG2	THR	4	-0.496	15.084	64.077	1.00	30.09
ATOM	30	C	THR	4	-1.436	12.516	63.017	1.00	31.90
ATOM	31	O	THR	4	-0.190	12.415	61.915	1.00	31.80
ATOM	32	N	THR	5	-2.158	12.574	63.156	1.00	30.88
ATOM	33	CA	THR	5	-3.636	13.494	61.999	1.00	28.90
ATOM	34	CB	THR	5	-4.616	11.120	62.137	1.00	30.11
ATOM	35	CG1	THR	5	-5.141	11.602	63.189	1.00	31.11
ATOM	36	CG2	THR	5	-3.764	10.635	62.461	1.00	29.84
ATOM	37	C	THR	5	-4.441	13.564	61.789	1.00	29.70
ATOM	38	O	THR	5	-4.402	14.684	62.601	1.00	29.11
ATOM	39	N	ILE	6	-5.184	13.804	60.681	1.00	28.90
ATOM	40	CA	ILE	6	-6.609	14.961	60.560	1.00	28.60
ATOM	41	CB	ILE	6	-6.771	14.849	59.041	1.00	30.80
ATOM	42	CG3	ILE	6	-7.145	16.047	58.617	1.00	29.10
ATOM	43	CG1	ILE	6	-5.801	14.798	57.945	1.00	30.10
ATOM	44	CD1	ILE	6	-6.113	13.840	56.601	1.00	31.94
ATOM	45	C	ILE	6	-7.016	15.189	61.402	1.00	29.00
ATOM	46	O	ILE	6	-7.159	16.127	61.811	1.00	30.84
ATOM	47	N	SER	7	-7.495	14.091	62.601	1.00	29.00
ATOM	48	CA	SER	7	-8.474	14.141	63.104	1.00	30.44
ATOM	49	CB	SER	7	-8.746	13.530	63.601	1.00	31.40
ATOM	50	CG	SER	7	-8.801	13.677	63.101	1.00	30.70
ATOM	51	CD	SER	7	-9.004	13.066	64.101	1.00	29.10
ATOM	52	C	SER	7	-8.711	13.551	64.609	1.00	29.00
ATOM	53	N	LEU	8	-6.111	14.901	64.501	1.00	29.00
ATOM	54	CA	LEU	8	-6.001	15.088	65.600	1.00	29.40
ATOM	55	CB	LEU	8	-5.111	15.100	65.778	1.00	29.10
ATOM	56	CG	LEU	8	-5.004	15.114	65.100	1.00	30.80
ATOM	57	CD1	LEU	8	-5.401	15.499	65.101	1.00	30.10
ATOM	58	CD2	LEU	8	-5.104	16.702	65.101	1.00	30.00
ATOM	59	C	LEU	8	-6.101	15.073	65.178	1.00	29.00
ATOM	60	N	LEU	8	-6.101	15.043	66.101	1.00	29.40
ATOM	61	CA	LEU	8	-5.001	15.109	64.109	1.00	29.70
ATOM	62	CB	LEU	8	-6.104	16.005	63.109	1.00	30.00
ATOM	63	CG	LEU	8	-5.001	16.119	63.101	1.00	29.70
ATOM	64	CD	LEU	8	-3.001	16.008	63.109	1.00	19.00
ATOM	65	CD1	LEU	8	-3.401	15.111	66.104	1.00	19.00
ATOM	66	CD2	LEU	8	-3.001	15.007	63.101	1.00	19.40
ATOM	67	C	LEU	8	-7.408	15.100	63.101	1.00	29.00
ATOM	68	N	LEU	8	-7.101	15.010	64.101	1.00	29.40
ATOM	69	N	GLN	10	-8.100	16.617	63.401	1.00	29.10
ATOM	70	CA	GLN	10	-9.001	16.900	63.401	1.00	30.70
ATOM	71	CB	GLN	10	-10.001	17.809	62.104	1.00	31.40
ATOM	72	CG	GLN	10	-12.001	18.770	62.501	1.00	34.00
ATOM	73	CD	GLN	10	-12.103	19.495	61.601	1.00	34.50
ATOM	74	CG1	GLN	10	-12.108	20.001	62.208	1.00	30.90
ATOM	75	CG2	GLN	10	-12.108	19.343	60.401	1.00	30.90
ATOM	76	C	GLN	10	-10.101	19.209	64.101	1.00	34.30
ATOM	77	O	GLN	10	-11.102	20.006	65.001	1.00	35.50
ATOM	78	N	LYS	11	-9.000	18.508	65.001	1.00	30.20
ATOM	79	CA	LYS	11	-9.001	18.604	67.101	1.00	30.10
ATOM	80	CB	LYS	11	-9.004	17.548	68.001	1.00	30.10
ATOM	81	CG	LYS	11	-9.406	17.108	69.101	1.00	40.10
ATOM	82	CD	LYS	11	-8.101	16.800	70.101	1.00	40.40
ATOM	83	CE	LYS	11	-9.101	15.446	70.101	1.00	40.75
ATOM	84	NE	LYS	11	-8.101	14.503	71.101	1.00	40.44
ATOM	85	C	LYS	11	-9.101	15.000	67.601	1.00	30.17
ATOM	86	N	LYS	11	-9.900	15.701	68.401	1.00	30.57
ATOM	87	N	TYR	12	-8.100	20.315	67.101	1.00	30.59
ATOM	88	CA	TYR	12	-7.501	21.505	67.101	1.00	30.53
ATOM	89	CB	TYR	12	-6.101	21.605	66.601	1.00	30.51
ATOM	90	CG	TYR	12	-6.000	20.803	67.401	1.00	30.50
ATOM	91	CD1	TYR	12	-3.800	20.504	68.701	1.00	30.60
ATOM	92	CD2	TYR	12	-3.800	19.703	67.201	1.00	30.86
ATOM	93	CD3	TYR	12	-5.201	20.001	68.701	1.00	30.36
ATOM	94	CE	TYR	12	-4.103	19.511	68.301	1.00	30.58
ATOM	95	CH	TYR	12	-3.001	19.304	68.601	1.00	30.25
ATOM	96	CB	TYR	12	-3.001	18.814	68.201	1.00	40.19
ATOM	97	C	TYR	12	-8.301	20.410	67.101	1.00	40.80
ATOM	98	N	TYR	12	-8.401	19.148	67.601	1.00	40.10
ATOM	99	N	LYS	12	-8.800	20.802	65.001	1.00	40.10
ATOM	100	CA	LYS	12	-9.001	20.000	65.401	1.00	50.74
ATOM	101	CB	LYS	12	-10.001	21.001	64.001	1.00	40.50
ATOM	102	CG	LYS	12	-10.801	24.001	63.401	1.00	64.01
ATOM	103	CD	LYS	12	-11.200	24.001	62.001	1.00	31.60
ATOM	104	CE	LYS	12	-10.004	23.001	61.401	1.00	31.85
ATOM	105	NE	LYS	12	-11.001	25.001	61.001	1.00	30.90

ATOM	106	C	LYS	13	-10.878	24.124	66.385	1.00	35.28
ATOM	107	O	LYS	13	-11.336	25.240	68.682	1.00	34.68
ATOM	108	N	GLN	14	-11.404	23.004	68.869	1.00	38.20
ATOM	109	CA	GLN	14	-12.772	23.018	68.744	1.00	40.77
ATOM	110	CB	GLN	14	-13.649	21.541	68.617	1.00	47.50
ATOM	111	CG	GLN	14	-13.862	20.903	68.800	1.00	45.11
ATOM	112	CD	GLN	14	-13.789	19.403	68.892	1.00	47.44
ATOM	113	OE1	GLN	14	-14.111	18.939	68.946	1.00	51.52
ATOM	114	NE2	GLN	14	-13.419	18.615	68.867	1.00	50.59
ATOM	115	C	GLU	14	-12.177	23.678	68.611	1.00	40.53
ATOM	116	O	GLU	14	-13.643	24.406	68.648	1.00	40.91
ATOM	117	N	GLU	15	-11.610	22.443	68.545	1.00	39.66
ATOM	118	CA	GLU	15	-10.144	24.068	70.805	1.00	39.12
ATOM	119	CB	GLU	15	-9.744	23.084	71.405	1.00	40.94
ATOM	120	CG	GLU	15	-10.012	21.607	71.709	1.00	43.66
ATOM	121	CD	GLU	15	-9.613	20.679	72.180	1.00	44.96
ATOM	122	OE1	GLU	15	-9.874	20.658	71.508	1.00	44.85
ATOM	123	OE2	GLU	15	-9.409	19.989	72.121	1.00	48.88
ATOM	124	C	GLY	15	-8.880	21.835	71.582	1.00	38.67
ATOM	125	O	GLY	15	-9.781	21.905	71.602	1.00	38.11
ATOM	126	N	LYS	16	-8.889	21.801	68.713	1.00	37.45
ATOM	127	CA	LYS	16	-8.149	21.069	68.849	1.00	38.83
ATOM	128	CB	LYS	16	-8.877	22.123	68.659	1.00	39.14
ATOM	129	CG	LYS	16	-10.110	22.105	68.548	1.00	42.47
ATOM	130	C	LYS	16	-9.863	22.912	68.583	1.00	44.77
ATOM	131	CD	LYS	16	-10.809	20.790	68.794	1.00	45.69
ATOM	132	NE	LYS	16	-11.774	21.053	68.495	1.00	45.58
ATOM	133	O	LYS	16	-9.777	21.045	68.771	1.00	45.74
ATOM	134	C	LYS	16	-9.110	22.153	68.187	1.00	34.70
ATOM	135	N	LYS	15	-7.158	21.865	68.654	1.00	31.79
ATOM	136	CA	LYS	17	-8.778	22.712	68.683	1.00	32.18
ATOM	137	CB	LYS	17	-8.110	24.411	71.145	1.00	34.01
ATOM	138	CG	LYS	17	-8.771	24.158	71.189	1.00	36.17
ATOM	139	CD	LYS	17	-10.618	22.870	71.573	1.00	38.59
ATOM	140	NE	LYS	17	-11.158	21.194	71.405	1.00	41.80
ATOM	141	OE	LYS	17	-11.875	21.069	71.504	1.00	42.95
ATOM	142	C	LYS	15	-11.875	21.864	68.789	1.00	30.45
ATOM	143	O	LYS	17	-11.875	24.901	68.745	1.00	33.95
ATOM	144	N	ARG	18	-11.159	22.145	68.183	1.00	28.24
ATOM	145	CA	ARG	18	-11.746	21.084	68.183	1.00	21.11
ATOM	146	CB	ARG	18	-11.984	22.843	68.141	1.00	26.93
ATOM	147	CG	ARG	18	-11.113	22.588	68.138	1.00	29.98
ATOM	148	CD	ARG	18	-11.874	21.058	68.156	1.00	31.56
ATOM	149	NE	ARG	18	-10.965	21.147	68.909	1.00	31.11
ATOM	150	OE	ARG	18	-11.874	21.673	68.137	1.00	34.92
ATOM	151	NH1	ARG	18	-11.894	21.673	68.580	1.00	34.93
ATOM	152	NH2	ARG	18	-11.861	22.191	68.126	1.00	33.10
ATOM	153	C	ARG	18	-12.219	22.319	68.512	1.00	26.09
ATOM	154	O	ARG	18	-11.145	22.337	68.582	1.00	27.27
ATOM	155	N	PHE	19	-12.083	21.546	68.545	1.00	24.65
ATOM	156	CA	PHE	19	-9.783	24.601	68.710	1.00	21.83
ATOM	157	CB	PHE	19	-11.513	23.213	68.386	1.00	22.18
ATOM	158	C	PHE	19	-12.104	23.116	68.147	1.00	21.17
ATOM	159	CD1	PHE	19	-11.813	22.004	68.383	1.00	21.71
ATOM	160	CD2	PHE	19	-13.779	22.275	68.249	1.00	21.90
ATOM	161	OE1	PHE	19	-12.614	21.036	68.750	1.00	20.83
ATOM	162	OE2	PHE	19	-14.583	22.159	68.093	1.00	20.74
ATOM	163	CG	PHE	19	-13.945	22.137	68.837	1.00	22.45
ATOM	164	C	PHE	19	-9.075	24.985	68.673	1.00	20.64
ATOM	165	O	PHE	19	-12.178	21.627	68.763	1.00	10.34
ATOM	166	N	ALA	20	-11.376	24.509	68.894	1.00	17.92
ATOM	167	CA	ALA	20	-11.479	24.931	68.994	1.00	18.40
ATOM	168	CB	ALA	20	-11.671	24.051	68.808	1.00	16.35
ATOM	169	C	ALA	20	-11.676	24.705	68.959	1.00	17.94
ATOM	170	O	ALA	20	-11.577	23.515	68.253	1.00	13.13
ATOM	171	N	THR	21	-11.035	24.126	68.750	1.00	19.37
ATOM	172	CA	THR	21	-11.471	24.111	68.654	1.00	21.08
ATOM	173	CB	THR	21	-11.335	24.215	68.599	1.00	22.47
ATOM	174	OH1	THR	21	-11.915	23.766	68.391	1.00	25.51
ATOM	175	OH2	THR	21	-11.503	21.198	68.449	1.00	24.47
ATOM	176	C	THR	21	-11.677	24.106	68.621	1.00	18.87
ATOM	177	O	THR	21	-11.018	24.848	68.099	1.00	19.67
ATOM	178	N	ILE	22	-11.891	21.757	68.587	1.00	17.37
ATOM	179	CA	ILE	22	-11.677	21.156	68.802	1.00	16.77
ATOM	180	CB	ILE	22	-11.771	21.058	68.915	1.00	16.67
ATOM	181	CG	ILE	22	-11.878	21.547	68.279	1.00	17.17
ATOM	182	CD	ILE	22	-11.878	21.547	68.279	1.00	18.17

ATOM	183	CD1	ILE	22	9.959	24.160	60.653	1.00	19.13
ATOM	184	C	ILE	22	7.068	22.314	57.617	1.00	16.27
ATOM	185	O	ILE	22	6.592	21.194	57.456	1.00	16.81
ATOM	186	N	THR	23	7.911	22.868	56.754	1.00	16.76
ATOM	187	CA	THR	23	8.557	22.119	55.586	1.00	19.36
ATOM	188	CB	THR	23	8.756	23.061	54.409	1.00	18.75
ATOM	189	CG1	THR	23	12.010	23.697	54.69	1.00	23.35
ATOM	190	CG2	THR	23	7.699	24.155	54.216	1.00	23.15
ATOM	191	C	THR	23	9.564	21.285	56.014	1.00	18.45
ATOM	192	O	THR	23	19.274	21.643	56.954	1.00	18.13
ATOM	193	N	ALA	24	9.772	20.155	55.345	1.00	17.71
ATOM	194	CA	ALA	24	10.897	19.276	55.635	1.00	16.51
ATOM	195	CP	ALA	24	10.575	18.345	56.796	1.00	16.75
ATOM	196	C	ALA	24	11.132	18.482	54.358	1.00	15.72
ATOM	197	O	ALA	24	10.181	18.185	53.634	1.00	13.61
ATOM	198	N	TYR	25	12.387	18.146	54.079	1.00	15.44
ATOM	199	CA	TYR	25	12.717	17.420	52.855	1.00	15.30
ATOM	200	CB	TYR	25	13.765	18.389	51.730	1.00	16.75
ATOM	201	CG	TYR	25	12.454	19.691	51.125	1.00	19.07
ATOM	202	CD1	TYR	25	12.954	20.822	52.401	1.00	17.11
ATOM	203	CE1	TYR	25	12.149	22.076	52.175	1.00	23.57
ATOM	204	CD2	TYR	25	11.133	19.888	51.629	1.00	17.14
ATOM	205	CE2	TYR	25	10.546	21.010	50.995	1.00	21.11
ATOM	206	CZ	TYR	25	11.544	22.114	51.675	1.00	22.44
ATOM	207	CH	TYR	25	10.147	23.500	51.665	1.00	25.31
ATOM	208	C	TYR	25	13.167	16.359	53.065	1.00	13.26
ATOM	209	O	TYR	25	14.227	15.827	51.694	1.00	18.21
ATOM	210	N	ARG	26	14.161	16.011	54.720	1.00	19.39
ATOM	211	CA	ARG	26	15.111	15.619	54.634	1.00	18.04
ATOM	212	CB	ARG	26	16.511	15.686	54.453	1.00	14.69
ATOM	213	CG	ARG	26	16.80	16.711	55.107	1.00	16.84
ATOM	214	CM1	ARG	26	17.800	16.191	56.679	1.00	17.13
ATOM	215	CM2	ARG	26	16.829	17.935	55.144	1.00	14.58
ATOM	216	C	ARG	26	14.967	14.416	55.981	1.00	16.01
ATOM	217	O	ARG	26	14.185	14.888	56.815	1.00	16.69
ATOM	218	N	PRO	27	15.119	11.183	56.114	1.00	13.50
ATOM	219	CA	PRO	27	15.600	12.615	57.471	1.00	15.85
ATOM	220	CB	PRO	27	16.59	11.412	57.405	1.00	16.76
ATOM	221	CG	PRO	27	16.77	10.873	56.12	1.00	17.84
ATOM	222	CD1	PRO	27	15.871	9.723	56.151	1.00	17.06
ATOM	223	CE1	PRO	27	16.653	9.046	60.555	1.00	18.09
ATOM	224	CD2	PRO	27	17.873	10.975	59.546	1.00	14.28
ATOM	225	CE2	PRO	27	18.065	10.511	60.745	1.00	20.21
ATOM	226	CZ	PRO	27	17.163	9.550	61.151	1.00	20.90
ATOM	227	CH	PRO	27	17.567	8.601	60.347	1.00	21.54
ATOM	228	C	TYR	27	16.056	13.482	58.671	1.00	15.76
ATOM	229	O	TYR	27	15.137	13.144	59.670	1.00	16.46
ATOM	230	N	SER	28	17.126	14.111	58.560	1.00	16.90
ATOM	231	CA	SER	28	17.165	14.943	59.630	1.00	17.00
ATOM	232	CB	SER	28	19.034	15.643	59.146	1.00	19.12
ATOM	233	OG	SER	28	20.029	14.611	58.842	1.00	22.00
ATOM	234	C	SER	28	16.786	15.957	60.122	1.00	17.23
ATOM	235	O	SER	28	16.485	15.905	61.423	1.00	16.02
ATOM	236	N	PHE	29	16.307	16.881	59.403	1.00	15.80
ATOM	237	CA	PHE	29	15.382	17.864	59.965	1.00	16.28
ATOM	238	CB	PHE	29	15.187	19.035	59.000	1.00	14.20
ATOM	239	CG	PHE	29	16.521	19.968	59.001	1.00	15.71
ATOM	240	CD1	PHE	29	17.354	19.111	59.975	1.00	14.17
ATOM	241	CE1	PHE	29	16.371	21.008	59.946	1.00	13.47
ATOM	242	CD2	PHE	29	18.473	20.134	59.080	1.00	15.73
ATOM	243	CE2	PHE	29	17.433	21.994	59.967	1.00	17.20
ATOM	244	C	PHE	29	16.483	21.787	58.931	1.00	14.83
ATOM	245	O	PHE	29	14.541	17.111	60.383	1.00	15.85
ATOM	246	O	PHE	29	13.167	17.636	61.383	1.00	16.89
ATOM	247	N	ALA	30	18.533	16.116	52.612	1.00	16.13
ATOM	248	CA	ALA	30	12.156	15.718	59.962	1.00	17.31
ATOM	249	CB	ALA	30	11.867	14.549	58.925	1.00	16.54
ATOM	250	C	ALA	30	17.342	15.114	61.357	1.00	17.36
ATOM	251	O	ALA	30	11.491	15.171	62.155	1.00	16.42
ATOM	252	N	LEU	31	11.981	14.187	61.534	1.00	16.13
ATOM	253	CA	LEU	31	13.131	13.915	62.915	1.00	17.07
ATOM	254	CP	LEU	31	15.962	13.903	62.952	1.00	18.23
ATOM	255	C	LEU	31	15.491	12.386	64.146	1.00	24.25
ATOM	256	CI	LEU	31	14.635	11.203	64.469	1.00	27.90
ATOM	257	CE	LEU	31	19.308	10.248	65.425	1.00	30.35
ATOM	258	CD	LEU	31	11.114	10.212	66.663	1.00	30.26
ATOM	259	C	LEU	31	11.852	14.133	64.057	1.00	15.15

ATOM	260	O	LYS	31	13.250	14.608	65.147	1.00	18.34
ATOM	261	N	LEU	32	14.468	15.941	62.790	1.00	18.82
ATOM	262	CA	LEU	32	14.631	17.019	64.756	1.00	18.15
ATOM	263	CB	LEU	32	15.549	18.097	64.171	1.00	18.24
ATOM	264	CG	LEU	32	16.070	19.200	65.113	1.00	18.88
ATOM	265	CD1	LEU	32	17.356	18.769	64.556	1.00	18.20
ATOM	266	CD2	LEU	32	15.008	20.292	65.286	1.00	18.78
ATOM	267	O	LEU	32	14.272	17.620	65.103	1.00	18.02
ATOM	268	O	LEU	32	12.963	17.847	66.272	1.00	18.18
ATOM	269	N	PRO	33	12.462	17.885	64.061	1.00	17.54
ATOM	270	CA	PRO	33	11.144	18.473	64.316	1.00	18.11
ATOM	271	CB	PRO	33	10.451	18.832	62.995	1.00	18.51
ATOM	272	CG	PRO	33	11.255	19.754	62.095	1.00	18.93
ATOM	273	CD1	PRO	33	12.113	20.689	62.610	1.00	18.65
ATOM	274	CD2	PRO	33	11.092	19.657	60.716	1.00	18.00
ATOM	275	CE1	PRO	33	12.832	21.580	61.764	1.00	18.96
ATOM	276	CE2	PRO	33	13.363	20.510	59.861	1.00	19.75
ATOM	277	CZ	PRO	33	12.615	21.441	60.769	1.00	18.73
ATOM	278	O	PRO	33	10.238	17.563	65.093	1.00	18.11
ATOM	279	O	PRO	33	9.557	17.832	66.048	1.00	18.51
ATOM	280	N	ALA	14	10.246	16.241	64.866	1.00	18.43
ATOM	281	CA	ALA	14	9.431	15.731	65.030	1.00	18.40
ATOM	282	CB	ALA	14	8.873	13.818	64.623	1.00	18.04
ATOM	283	O	ALA	14	8.628	15.068	66.799	1.00	22.81
ATOM	284	O	ALA	14	8.773	15.363	65.675	1.00	19.41
ATOM	285	N	ASP	15	11.125	15.701	67.054	1.00	21.13
ATOM	286	CA	ASP	15	11.574	14.762	68.449	1.00	24.54
ATOM	287	CB	ASP	15	12.086	14.738	67.505	1.00	24.01
ATOM	288	CG	ASP	15	12.502	13.424	67.989	1.00	27.02
ATOM	289	CD1	ASP	15	12.641	12.519	65.898	1.00	28.72
ATOM	290	CD2	ASP	15	12.770	13.281	62.694	1.00	28.18
ATOM	291	O	ASP	15	12.156	16.311	69.124	1.00	23.40
ATOM	292	O	ASP	15	11.086	16.624	70.545	1.00	24.71
ATOM	293	N	GLU	16	10.872	17.284	68.707	1.00	24.53
ATOM	294	CA	GLU	16	10.455	16.469	69.464	1.00	23.69
ATOM	295	CB	GLU	16	11.029	15.743	68.184	1.00	25.35
ATOM	296	CS	GLU	16	12.555	19.616	68.963	1.00	25.51
ATOM	297	CD	GLU	16	12.635	19.710	70.193	1.00	26.63
ATOM	298	CE1	GLU	16	12.385	20.375	71.184	1.00	26.68
ATOM	299	CE2	GLU	16	13.845	19.682	70.637	1.00	27.91
ATOM	300	O	GLU	16	8.937	18.518	69.553	1.00	23.85
ATOM	301	O	GLU	16	8.421	19.532	70.192	1.00	23.61
ATOM	302	N	GLY	17	8.221	17.612	68.908	1.00	22.87
ATOM	303	CA	GLY	17	6.765	17.711	68.955	1.00	22.54
ATOM	304	O	GLY	17	6.046	18.447	67.796	1.00	19.72
ATOM	305	O	GLY	17	4.902	18.741	67.845	1.00	21.78
ATOM	306	N	LEU	18	6.873	18.755	65.765	1.00	19.44
ATOM	307	CA	LEU	18	6.365	19.416	64.569	1.00	19.71
ATOM	308	CB	LEU	18	7.459	20.281	64.952	1.00	20.11
ATOM	309	CG	LEU	18	7.131	21.691	64.458	1.00	22.63
ATOM	310	CD1	LEU	18	8.352	22.238	63.739	1.00	20.65
ATOM	311	CD2	LEU	18	5.928	21.714	63.548	1.00	20.60
ATOM	312	C	LEU	18	6.657	18.222	64.664	1.00	23.60
ATOM	313	O	LEU	18	8.938	17.741	63.839	1.00	18.40
ATOM	314	N	ASN	19	4.807	17.762	64.720	1.00	20.83
ATOM	315	CA	ASN	19	4.355	16.573	64.999	1.00	21.70
ATOM	316	CB	ASN	19	3.489	15.739	64.924	1.00	24.31
ATOM	317	CG	ASN	19	4.128	15.180	66.281	1.00	28.17
ATOM	318	GD1	ASN	19	5.134	15.152	66.177	1.00	28.10
ATOM	319	GD2	ASN	19	3.371	15.277	67.133	1.00	28.43
ATOM	320	O	ASN	19	3.993	16.766	62.096	1.00	19.17
ATOM	321	O	ASN	19	2.553	15.737	67.124	1.00	18.89
ATOM	322	N	VAL	20	3.648	14.661	62.123	1.00	18.09
ATOM	323	CA	VAL	20	2.569	14.121	60.863	1.00	18.41
ATOM	324	CB	VAL	20	1.792	12.713	61.654	1.00	18.71
ATOM	325	CG1	VAL	20	1.113	13.490	59.426	1.00	18.68
ATOM	326	CG2	VAL	20	0.901	12.453	62.066	1.00	18.69
ATOM	327	O	VAL	20	2.967	12.185	59.883	1.00	18.11
ATOM	328	O	VAL	20	4.453	13.710	60.040	1.00	14.58
ATOM	329	N	MET	21	4.189	12.666	58.369	1.00	16.73
ATOM	330	CA	MET	21	5.771	12.398	57.833	1.00	16.17
ATOM	331	CB	MET	21	6.731	12.156	58.083	1.00	16.97
ATOM	332	CG	MET	21	7.251	12.664	58.393	1.00	17.13
ATOM	333	SD	MET	21	6.564	12.750	59.719	1.00	18.34
ATOM	334	CE	MET	21	7.943	12.500	61.236	1.00	21.43
ATOM	335	O	MET	21	4.633	12.641	58.117	1.00	18.73
ATOM	336	O	MET	21	4.146	12.343	58.136	1.00	18.61

ATOM	337	N	LEU	42	5.276	19.300	55.655	1.00	18.90
ATOM	338	CA	LEU	42	4.907	19.383	54.265	1.00	20.11
ATOM	339	CB	LEU	42	4.178	20.707	54.016	1.00	22.93
ATOM	340	CG	LEU	42	3.677	21.143	52.630	1.00	26.24
ATOM	341	CD1	LEU	42	4.777	21.879	51.907	1.00	29.87
ATOM	342	CD2	LEU	42	3.168	18.955	51.818	1.00	24.10
ATOM	343	C	LEU	42	6.120	18.258	51.744	1.00	19.47
ATOM	344	O	LEU	42	7.100	18.978	51.498	1.00	17.61
ATOM	345	N	VAL	43	6.045	18.313	52.414	1.00	19.14
ATOM	346	CA	VAL	43	7.102	18.116	51.419	1.00	18.25
ATOM	347	CB	VAL	43	7.352	18.624	51.116	1.00	19.90
ATOM	348	CG1	VAL	43	8.397	18.461	50.641	1.00	19.97
ATOM	349	CG2	VAL	43	7.752	18.895	50.295	1.00	19.98
ATOM	350	C	VAL	43	6.517	18.800	50.208	1.00	18.97
ATOM	351	O	VAL	43	5.815	18.187	49.408	1.00	17.37
ATOM	352	N	GLY	44	6.766	20.102	50.609	1.00	17.95
ATOM	353	CA	GLY	44	6.248	20.805	48.980	1.00	20.64
ATOM	354	C	GLY	44	7.226	21.095	47.854	1.00	18.04
ATOM	355	O	GLY	44	8.470	21.872	48.602	1.00	17.49
ATOM	356	N	ASP	45	6.735	21.917	46.718	1.00	17.61
ATOM	357	CA	ASP	45	7.535	21.598	45.777	1.00	20.13
ATOM	358	CB	ASP	45	6.764	21.926	45.274	1.00	21.18
ATOM	359	CG	ASP	45	5.674	21.897	44.877	1.00	22.14
ATOM	360	OD1	ASP	45	5.671	20.782	45.274	1.00	22.16
ATOM	361	OD2	ASP	45	4.858	21.004	45.241	1.00	21.18
ATOM	362	C	ASP	45	8.481	21.607	45.776	1.00	18.43
ATOM	363	O	ASP	45	9.241	21.774	44.877	1.00	18.05
ATOM	364	N	THR	46	8.408	21.603	46.943	1.00	20.44
ATOM	365	CA	THR	46	9.385	21.572	47.117	1.00	19.71
ATOM	366	CB	THR	46	8.944	21.478	46.777	1.00	18.58
ATOM	367	OG	THR	46	9.146	21.473	46.778	1.00	21.11
ATOM	368	C	THR	46	10.705	21.109	47.247	1.00	19.37
ATOM	369	O	THR	46	11.686	21.943	47.117	1.00	20.36
ATOM	370	N	ILEU	47	10.810	21.184	47.777	1.00	18.59
ATOM	371	CA	ILEU	47	12.119	21.177	47.777	1.00	19.05
ATOM	372	CB	ILEU	47	11.470	21.377	47.667	1.00	18.90
ATOM	373	CG	ILEU	47	11.808	21.872	47.777	1.00	17.40
ATOM	374	CD1	ILEU	47	12.309	21.777	47.777	1.00	15.16
ATOM	375	CD2	ILEU	47	10.812	21.777	47.777	1.00	16.79
ATOM	376	C	ILEU	47	12.857	21.167	46.963	1.00	17.82
ATOM	377	O	ILEU	47	14.687	21.149	46.963	1.00	17.09
ATOM	378	N	GLY	48	12.100	21.741	46.963	1.00	17.61
ATOM	379	CA	GLY	48	12.720	21.747	47.777	1.00	16.18
ATOM	380	C	GLY	48	13.659	24.186	46.963	1.00	18.66
ATOM	381	O	GLY	48	14.644	24.187	46.963	1.00	17.89
ATOM	382	N	MET	49	13.196	25.188	41.691	1.00	19.84
ATOM	383	CA	MET	49	14.171	26.830	44.465	1.00	20.49
ATOM	384	CB	MET	49	13.143	24.921	41.100	1.00	27.46
ATOM	385	CG	MET	49	12.117	21.739	41.941	1.00	29.97
ATOM	386	SD	MET	49	11.199	21.069	41.366	1.00	31.44
ATOM	387	CE	MET	49	12.937	30.920	41.941	1.00	31.43
ATOM	388	C	MET	49	15.140	24.151	46.963	1.00	20.49
ATOM	389	O	MET	49	16.130	26.236	46.963	1.00	21.08
ATOM	390	N	THR	50	14.641	21.846	41.304	1.00	21.41
ATOM	391	CA	THR	50	15.447	21.770	41.337	1.00	21.66
ATOM	392	CB	THR	50	14.639	21.603	41.653	1.00	21.24
ATOM	393	OG1	THR	50	15.447	21.521	41.301	1.00	31.31
ATOM	394	OG2	THR	50	13.770	21.381	41.600	1.00	31.30
ATOM	395	C	THR	50	16.441	21.494	41.362	1.00	31.30
ATOM	396	O	THR	50	17.431	21.561	41.364	1.00	31.10
ATOM	397	N	VAL	51	15.775	21.391	47.787	1.00	18.20
ATOM	398	CA	VAL	51	16.871	21.377	47.719	1.00	18.61
ATOM	399	CB	VAL	51	16.887	21.618	47.983	1.00	18.12
ATOM	400	CG1	VAL	51	16.889	19.190	47.980	1.00	18.01
ATOM	401	CG2	VAL	51	15.775	21.363	47.979	1.00	17.82
ATOM	402	C	VAL	51	17.536	21.138	46.384	1.00	18.46
ATOM	403	O	VAL	51	18.535	21.967	46.351	1.00	18.46
ATOM	404	N	GLN	52	16.763	22.087	45.286	1.00	19.47
ATOM	405	CA	GLN	52	17.981	21.707	43.963	1.00	18.17
ATOM	406	CB	GLN	52	16.767	21.177	43.963	1.00	17.12
ATOM	407	CG	GLN	52	15.949	20.327	43.487	1.00	16.73
ATOM	408	CD	GLN	52	14.479	19.771	43.593	1.00	16.77
ATOM	409	OE1	GLN	52	14.811	20.952	41.673	1.00	16.73
ATOM	410	NEU	GLN	52	14.084	18.504	42.699	1.00	14.77
ATOM	411	C	GLN	52	18.976	23.196	43.411	1.00	14.00
ATOM	412	O	GLN	52	19.969	24.052	43.411	1.00	14.77
ATOM	413	N	GLY	53	14.714	24.334	43.831	1.00	16.16

ATOM	414	CA	GLY	53	18.248	25.549	43.361	1.00	20.83
ATOM	415	C	GLY	53	17.685	26.146	42.085	1.00	20.32
ATOM	416	O	GLY	53	18.387	26.877	41.287	1.00	24.49
ATOM	417	N	HIS	54	16.479	25.849	41.571	1.00	21.93
ATOM	418	CA	HIS	54	15.860	26.397	40.575	1.00	24.27
ATOM	419	CB	HIS	54	14.724	25.478	40.049	1.00	23.64
ATOM	420	CG	HIS	54	15.764	24.117	39.561	1.00	25.03
ATOM	421	CD	HIS	54	15.030	22.860	39.984	1.00	25.14
ATOM	422	ND1	HIS	54	16.171	24.029	38.528	1.00	25.82
ATOM	423	CE1	HIS	54	16.481	22.759	38.245	1.00	26.94
ATOM	424	NE2	HIS	54	15.800	21.049	39.208	1.00	26.01
ATOM	425	C	HIS	54	15.176	27.748	40.914	1.00	25.18
ATOM	426	O	HIS	54	14.947	28.058	42.086	1.00	24.14
ATOM	427	N	ASP	55	14.898	28.541	39.884	1.00	25.82
ATOM	428	CA	ASP	55	14.501	29.849	40.060	1.00	27.59
ATOM	429	CB	ASP	55	14.550	30.719	38.813	1.00	33.46
ATOM	430	CG	ASP	55	13.786	30.222	37.600	1.00	33.05
ATOM	431	OD1	ASP	55	12.535	30.266	37.611	1.00	36.66
ATOM	432	OD2	ASP	55	14.428	29.864	36.618	1.00	37.40
ATOM	433	C	ASP	55	12.881	29.552	40.535	1.00	36.78
ATOM	434	O	ASP	55	12.174	30.333	40.757	1.00	27.92
ATOM	435	N	THR	56	12.023	28.801	40.664	1.00	21.17
ATOM	436	CA	THR	56	12.831	28.556	40.721	1.00	21.47
ATOM	437	CB	THR	56	10.608	28.659	39.634	1.00	21.25
ATOM	438	CG	THR	56	10.231	27.608	39.584	1.00	21.31
ATOM	439	C	THR	56	10.382	26.916	40.781	1.00	20.52
ATOM	440	O	THR	56	11.129	26.155	40.805	1.00	21.16
ATOM	441	N	THR	57	9.554	26.025	41.581	1.00	15.31
ATOM	442	CA	THR	57	9.827	25.772	41.543	1.00	18.11
ATOM	443	CB	THR	57	7.869	25.335	42.578	1.00	19.53
ATOM	444	CG1	THR	57	6.236	25.830	41.672	1.00	20.57
ATOM	445	CG2	THR	57	8.149	26.179	43.777	1.00	19.07
ATOM	446	C	THR	57	8.160	24.519	40.396	1.00	18.44
ATOM	447	O	THR	57	8.412	23.333	40.587	1.00	18.74
ATOM	448	N	LEU	58	8.341	24.000	39.211	1.00	23.59
ATOM	449	CA	LEU	58	7.368	24.149	38.662	1.00	20.44
ATOM	450	CB	LEU	58	7.726	25.029	38.817	1.00	20.92
ATOM	451	CG	LEU	58	7.142	26.015	38.785	1.00	23.24
ATOM	452	CD	LEU	58	7.826	27.242	37.578	1.00	25.30
ATOM	453	CE	LEU	58	6.195	26.383	35.149	1.00	23.22
ATOM	454	C	LEU	58	8.387	22.911	37.494	1.00	21.57
ATOM	455	O	LEU	58	8.120	21.868	37.166	1.00	19.23
ATOM	456	N	PRO	59	10.725	25.015	37.731	1.00	20.12
ATOM	457	CD	PRO	59	10.545	24.211	37.965	1.00	23.05
ATOM	458	CA	PRO	59	10.562	21.860	37.592	1.00	21.47
ATOM	459	CB	PRO	59	12.186	22.433	37.427	1.00	21.53
ATOM	460	CG	PRO	59	12.167	23.617	38.135	1.00	25.29
ATOM	461	C	PRO	59	10.678	20.655	38.737	1.00	16.05
ATOM	462	O	PRO	59	11.341	19.544	37.946	1.00	18.36
ATOM	463	N	VAL	60	10.100	20.865	39.486	1.00	17.35
ATOM	464	CA	VAL	60	9.382	19.740	40.423	1.00	16.87
ATOM	465	CB	VAL	60	9.730	20.275	41.785	1.00	15.81
ATOM	466	CG1	VAL	60	9.646	19.019	42.709	1.00	15.77
ATOM	467	CG2	VAL	60	10.536	21.231	42.439	1.00	15.43
ATOM	468	C	VAL	60	8.894	18.710	39.852	1.00	17.60
ATOM	469	O	VAL	60	7.803	19.019	39.409	1.00	14.20
ATOM	470	N	THR	61	9.167	17.465	39.374	1.00	18.26
ATOM	471	CA	THR	61	8.783	16.410	38.752	1.00	20.57
ATOM	472	CB	THR	61	9.124	15.540	38.252	1.00	24.69
ATOM	473	CG1	THR	61	9.351	16.419	37.145	1.00	31.75
ATOM	474	CG2	THR	61	8.761	14.431	37.760	1.00	36.08
ATOM	475	C	THR	61	7.968	15.507	40.487	1.00	17.77
ATOM	476	O	THR	61	8.403	15.581	41.709	1.00	14.02
ATOM	477	N	VAL	62	8.914	14.634	40.138	1.00	15.87
ATOM	478	CA	VAL	62	6.560	13.734	41.177	1.00	15.01
ATOM	479	CB	VAL	62	5.364	12.934	40.932	1.00	14.11
ATOM	480	CG1	VAL	62	4.831	11.741	41.513	1.00	13.65
ATOM	481	CG2	VAL	62	4.173	13.289	40.111	1.00	13.51
ATOM	482	C	VAL	62	7.323	12.837	41.724	1.00	15.22
ATOM	483	O	VAL	62	7.159	12.527	41.078	1.00	16.66
ATOM	484	N	ALA	63	6.383	12.417	40.965	1.00	15.74
ATOM	485	CA	ALA	63	4.345	11.591	41.447	1.00	14.89
ATOM	486	CB	ALA	63	10.383	11.137	40.519	1.00	16.25
ATOM	487	C	ALA	63	15.230	13.363	41.567	1.00	13.05
ATOM	488	O	ALA	63	16.579	11.655	42.573	1.00	13.97
ATOM	489	N	ASP	64	10.500	13.751	42.887	1.00	14.13
ATOM	490	CA	ASP	64	11.258	14.711	40.777	1.00	14.19

ATCM	431	CB	ASP	64	11.507	15.762	42.890	1.00	13.98
ATCM	432	CG	ASP	64	12.409	15.849	41.605	1.00	14.58
ATCM	433	OD1	ASP	64	15.170	14.975	41.351	1.00	15.44
ATCM	434	OD2	ASP	64	12.003	16.829	40.845	1.00	17.47
ATCM	435	C	ASP	64	10.402	14.305	44.673	1.00	14.42
ATCM	436	O	ASP	64	11.072	14.115	45.740	1.00	12.00
ATCM	437	N	ILE	65	9.194	14.610	44.618	1.00	12.48
ATCM	438	CA	ILE	65	7.874	14.505	45.875	1.00	13.80
ATCM	439	CB	ILE	65	7.899	15.090	45.554	1.00	11.05
ATCM	500	CG2	ILE	65	7.642	14.908	46.727	1.00	15.85
ATCM	501	CG1	ILE	65	7.822	16.488	44.909	1.00	14.20
ATCM	502	CD1	ILE	65	7.176	17.047	45.913	1.00	13.30
ATCM	503	C	ILE	65	7.882	17.359	46.551	1.00	12.45
ATCM	504	O	ILE	65	6.102	17.104	47.269	1.00	13.07
ATCM	505	N	ALA	66	5.152	17.177	48.785	1.00	12.41
ATCM	506	CA	ALA	66	4.117	16.957	48.854	1.00	9.38
ATCM	507	CB	ALA	66	7.258	16.911	48.171	1.00	9.59
ATCM	508	C	ALA	66	5.518	16.780	47.077	1.00	11.07
ATCM	509	O	ALA	66	3.516	16.860	48.127	1.00	11.14
ATCM	510	N	TYR	67	16.819	11.117	48.440	1.00	11.47
ATCM	511	CA	TYR	67	11.944	10.700	47.640	1.00	17.07
ATCM	512	CB	TYR	67	11.977	11.111	48.067	1.00	11.05
ATCM	513	CG	TYR	67	14.154	11.107	48.189	1.00	11.46
ATCM	514	CD1	TYR	67	11.110	10.440	48.647	1.00	17.65
ATCM	515	CD1	TYR	67	14.441	10.141	47.671	1.00	15.15
ATCM	516	CD2	TYR	67	11.068	11.121	48.949	1.00	16.14
ATCM	517	CD2	TYR	67	14.111	11.111	47.789	1.00	15.50
ATCM	518	CG	TYR	67	17.079	11.110	47.451	1.00	16.15
ATCM	519	OH	TYR	67	18.111	11.110	47.854	1.00	16.11
ATCM	520	C	TYR	67	14.094	11.407	48.414	1.00	12.67
ATCM	521	O	TYR	67	12.001	10.800	49.460	1.00	12.21
ATCM	522	N	HIS	68	11.711	11.110	48.481	1.00	14.09
ATCM	523	CA	HIS	68	11.814	11.140	49.080	1.00	13.14
ATCM	524	CB	HIS	68	11.711	11.000	49.080	1.00	12.95
ATCM	525	CG	HIS	68	11.910	11.111	48.014	1.00	13.05
ATCM	526	CD2	HIS	68	11.140	11.110	47.111	1.00	13.10
ATCM	527	ND1	HIS	68	14.111	11.704	49.181	1.00	11.37
ATCM	528	CD1	HIS	68	11.000	16.110	48.400	1.00	11.57
ATCM	529	NE2	HIS	68	11.401	16.110	47.111	1.00	14.06
ATCM	530	C	HIS	68	10.711	11.140	50.701	1.00	14.18
ATCM	531	O	HIS	68	11.001	11.111	51.879	1.00	12.96
ATCM	532	N	THR	69	9.001	12.111	50.111	1.00	13.76
ATCM	533	CA	THR	69	8.117	11.110	51.111	1.00	12.84
ATCM	534	CB	THR	69	7.191	11.810	50.721	1.00	13.67
ATCM	535	CG1	THR	69	8.000	12.004	49.734	1.00	13.10
ATCM	536	CG2	THR	69	8.190	13.100	51.110	1.00	13.21
ATCM	537	C	THR	69	8.000	10.910	51.877	1.00	12.94
ATCM	538	O	THR	69	8.801	10.800	51.800	1.00	13.96
ATCM	539	N	ALA	70	9.716	10.040	51.110	1.00	12.91
ATCM	540	CA	ALA	70	10.000	8.840	51.710	1.00	12.85
ATCM	541	CB	ALA	70	10.001	7.904	50.710	1.00	16.07
ATCM	542	C	ALA	70	11.101	9.100	52.820	1.00	17.23
ATCM	543	O	ALA	70	11.070	8.940	51.850	1.00	12.96
ATCM	544	N	ALA	71	12.111	10.110	52.851	1.00	13.50
ATCM	545	CA	ALA	71	11.174	10.510	52.610	1.00	13.45
ATCM	546	CB	ALA	71	14.116	11.480	52.984	1.00	14.51
ATCM	547	C	ALA	71	12.115	11.110	53.140	1.00	16.10
ATCM	548	O	ALA	71	12.001	10.000	52.981	1.00	14.42
ATCM	549	N	VAL	72	11.111	11.100	54.071	1.00	14.59
ATCM	550	CA	VAL	72	10.001	11.000	53.700	1.00	15.40
ATCM	551	CB	VAL	72	9.000	10.000	53.171	1.00	16.14
ATCM	552	CG1	VAL	72	9.000	12.111	54.111	1.00	16.00
ATCM	553	CG2	VAL	72	10.000	14.100	54.100	1.00	16.34
ATCM	554	C	VAL	72	11.111	11.000	54.590	1.00	15.11
ATCM	555	O	VAL	72	10.110	11.000	52.871	1.00	14.69
ATCM	556	N	ARG	73	9.000	10.000	55.900	1.00	14.57
ATCM	557	CA	ARG	73	8.111	9.000	56.600	1.00	12.67
ATCM	558	CB	ARG	73	8.000	8.004	55.710	1.00	13.47
ATCM	559	CG	ARG	73	7.110	7.110	56.440	1.00	12.53
ATCM	560	CD	ARG	73	6.000	8.011	57.510	1.00	18.47
ATCM	561	NE	ARG	73	5.117	8.110	58.911	1.00	18.07
ATCM	562	CD	ARG	73	4.158	8.111	57.617	1.00	17.77
ATCM	563	NH1	ARG	73	4.179	9.571	58.944	1.00	11.94
ATCM	564	NH2	ARG	73	3.153	10.021	56.981	1.00	16.05
ATCM	565	C	ARG	73	9.148	8.176	57.549	1.00	13.87
ATCM	566	O	ARG	73	9.166	7.134	58.631	1.00	13.84
ATCM	567	N	ARG	74	10.903	8.524	57.050	1.00	16.11

ATOM	562	CA	AFG	74	11.926	7.738	57.823	1.00	13.53
ATOM	563	CB	AFG	74	13.155	7.405	56.975	1.00	15.28
ATOM	570	CG	AFG	74	12.860	6.543	55.752	1.00	16.51
ATOM	571	CD	AFG	74	14.133	5.937	55.155	1.00	17.77
ATOM	572	NE	AFG	74	12.895	5.241	53.838	1.00	20.87
ATOM	573	C2	AFG	74	17.896	6.020	52.694	1.00	22.35
ATOM	574	NH1	AFG	74	14.127	7.315	52.488	1.00	23.90
ATOM	575	NH2	AFG	74	10.656	5.197	51.352	1.00	27.67
ATOM	576	O	AFG	74	12.355	8.513	59.651	1.00	16.15
ATOM	577	O	AFG	74	12.673	7.932	60.093	1.00	16.86
ATOM	578	N	GLY	75	12.359	9.834	58.913	1.00	16.67
ATOM	579	CA	GLY	75	12.753	10.681	60.055	1.00	17.65
ATOM	580	C	GLY	75	11.629	10.935	61.019	1.00	17.83
ATOM	581	O	GLY	75	11.865	11.107	62.215	1.00	17.96
ATOM	582	N	ALA	76	10.398	10.952	60.515	1.00	17.56
ATOM	583	CA	ALA	76	9.240	11.210	61.555	1.00	17.19
ATOM	584	CB	ALA	76	8.767	12.640	61.173	1.00	16.98
ATOM	585	C	ALA	76	8.108	10.229	61.054	1.00	18.56
ATOM	586	O	ALA	76	7.100	10.590	60.442	1.00	18.59
ATOM	587	N	PRO	77	9.759	9.677	61.115	1.00	20.24
ATOM	588	CA	PRO	77	9.361	8.507	62.400	1.00	21.87
ATOM	589	CB	PRO	77	7.777	7.999	61.348	1.00	20.74
ATOM	590	CP	PRO	77	7.944	6.696	61.912	1.00	22.64
ATOM	591	CG	PRO	77	8.749	7.303	63.062	1.00	23.39
ATOM	592	O	PRO	77	5.370	8.138	61.932	1.00	20.80
ATOM	593	O	PRO	77	4.929	7.462	61.478	1.00	20.30
ATOM	594	N	ASN	78	5.720	9.082	62.858	1.00	19.28
ATOM	595	CA	ASN	78	4.422	9.342	63.559	1.00	20.69
ATOM	596	CB	ASN	78	4.449	9.142	64.977	1.00	22.75
ATOM	597	CG	ASN	78	4.553	7.807	63.434	1.00	23.60
ATOM	598	CD1	ASN	78	3.771	6.951	65.051	1.00	31.18
ATOM	599	ND2	ASN	78	9.519	7.534	64.377	1.00	29.98
ATOM	600	C	ASN	78	3.821	10.693	62.961	1.00	19.38
ATOM	601	O	ASN	78	2.756	12.076	63.458	1.00	21.47
ATOM	602	N	GYS	79	4.507	12.349	62.191	1.00	17.77
ATOM	603	CA	GYS	79	4.046	12.713	61.686	1.00	18.13
ATOM	604	CB	GYS	79	3.210	13.557	61.158	1.00	19.79
ATOM	605	CG	GYS	79	2.847	13.375	59.357	1.00	24.96
ATOM	606	C	GYS	79	2.836	12.667	60.653	1.00	19.97
ATOM	607	O	GYS	79	2.733	12.652	59.981	1.00	17.94
ATOM	608	N	LEU	80	2.202	13.370	60.563	1.00	19.53
ATOM	609	CA	LEU	80	1.163	13.904	59.519	1.00	19.28
ATOM	610	CB	LEU	80	1.054	14.860	59.973	1.00	20.96
ATOM	611	CG	LEU	80	-3.984	15.325	58.913	1.00	21.27
ATOM	612	CD1	LEU	80	-1.670	13.957	58.396	1.00	22.20
ATOM	613	CD2	LEU	80	-3.093	16.195	59.488	1.00	22.16
ATOM	614	C	LEU	80	1.962	14.527	58.347	1.00	18.90
ATOM	615	O	LEU	80	2.442	15.655	58.539	1.00	18.11
ATOM	616	N	LEU	81	2.120	13.788	57.294	1.00	15.94
ATOM	617	CA	LEU	81	2.924	14.361	56.131	1.00	16.23
ATOM	618	CB	LEU	81	3.930	13.169	55.775	1.00	13.46
ATOM	619	CG	LEU	81	5.213	13.532	55.008	1.00	18.26
ATOM	620	CD1	LEU	81	6.102	12.304	54.737	1.00	18.43
ATOM	621	CD2	LEU	81	4.864	14.738	53.635	1.00	21.41
ATOM	622	C	LEU	81	2.090	14.569	54.936	1.00	16.36
ATOM	623	O	LEU	81	2.317	13.457	54.477	1.00	16.43
ATOM	624	N	LEU	81	2.183	15.844	54.798	1.00	16.31
ATOM	625	CA	LEU	82	1.457	16.466	53.177	1.00	17.33
ATOM	626	CB	LEU	82	0.827	17.659	53.766	1.00	19.26
ATOM	627	CG	LEU	82	-0.451	17.985	53.145	1.00	22.17
ATOM	628	CD1	LEU	82	-0.449	17.200	53.732	1.00	21.32
ATOM	629	CD2	LEU	82	-0.777	19.462	54.750	1.00	21.17
ATOM	630	C	LEU	82	2.458	16.957	52.332	1.00	17.67
ATOM	631	O	LEU	82	3.579	17.388	52.531	1.00	18.88
ATOM	632	N	ALA	83	2.033	16.053	51.171	1.00	16.83
ATOM	633	CA	ALA	83	2.969	16.114	51.733	1.00	16.39
ATOM	634	CB	ALA	83	3.408	14.726	49.877	1.00	16.49
ATOM	635	C	ALA	83	2.337	16.841	49.881	1.00	14.35
ATOM	636	O	ALA	83	1.185	16.374	49.354	1.00	14.15
ATOM	637	N	ASN	84	3.658	17.376	49.174	1.00	13.95
ATOM	638	CA	ASN	84	2.498	18.129	47.149	1.00	16.09
ATOM	639	CB	ASN	84	2.108	19.279	48.893	1.00	22.89
ATOM	640	CG	ASN	84	2.767	20.957	47.723	1.00	24.54
ATOM	641	CD1	ASN	84	1.548	21.195	47.152	1.00	30.36
ATOM	642	CD2	ASN	84	3.851	21.644	48.329	1.00	32.60
ATOM	643	C	ASN	84	2.129	19.716	47.893	1.00	16.15
ATOM	644	O	ASN	84	3.231	18.775	47.745	1.00	14.13

ATOM	645	N	LEU	85	1.535	17.967	44.998	1.00	15.10
ATOM	646	CA	LEU	85	1.539	17.381	43.667	1.00	15.19
ATOM	647	CB	LEU	85	0.127	17.043	43.167	1.00	16.96
ATOM	648	CG	LEU	85	-0.451	15.751	43.751	1.00	17.38
ATOM	649	CD1	LEU	85	-1.753	15.760	43.028	1.00	17.36
ATOM	650	CD2	LEU	85	0.574	14.639	41.604	1.00	17.58
ATOM	651	O	LEU	85	0.111	18.193	41.937	1.00	14.35
ATOM	652	O	LEU	85	1.563	19.694	43.034	1.00	15.37
ATOM	653	N	PFO	86	3.255	18.419	41.262	1.00	14.05
ATOM	654	CD	PFO	86	3.984	17.143	42.170	1.00	15.98
ATOM	655	CA	PFO	86	3.949	19.473	41.518	1.00	15.34
ATOM	656	CB	PFO	86	5.305	18.839	41.224	1.00	16.60
ATOM	657	CG	PFO	86	4.933	17.386	41.018	1.00	16.34
ATOM	658	O	PFO	86	3.249	19.970	40.255	1.00	17.30
ATOM	659	O	PFO	86	2.161	19.515	39.599	1.00	17.49
ATOM	660	N	IRE	87	3.897	20.917	39.591	1.00	17.02
ATOM	661	CA	IRE	87	3.386	21.509	38.571	1.00	18.00
ATOM	662	CB	IRE	87	4.485	22.357	37.738	1.00	19.87
ATOM	663	CG	IRE	87	4.123	23.906	36.783	1.00	19.63
ATOM	664	CD1	IRE	87	5.015	23.719	36.729	1.00	19.49
ATOM	665	CD2	IRE	87	4.393	23.568	35.765	1.00	20.71
ATOM	666	CE1	IRE	87	7.690	24.243	34.792	1.00	21.55
ATOM	667	CE2	IRE	87	4.367	21.035	34.012	1.00	20.03
ATOM	668	OZ	IRE	87	3.168	21.926	33.870	1.00	21.84
ATOM	669	O	IRE	87	1.171	20.467	32.573	1.00	17.52
ATOM	670	O	PFE	87	3.161	19.495	32.051	1.00	16.53
ATOM	671	N	MRT	88	1.641	23.682	36.909	1.00	16.65
ATOM	672	CA	MRT	88	0.981	19.816	35.939	1.00	18.63
ATOM	673	CB	MRT	88	1.666	18.964	34.575	1.00	20.77
ATOM	674	CG	MRT	88	0.767	19.578	33.413	1.00	22.54
ATOM	675	SD	MRT	88	-0.593	20.732	33.216	1.00	21.14
ATOM	676	CE	MRT	88	0.111	21.920	32.809	1.00	22.91
ATOM	677	O	MRT	88	0.931	18.340	36.126	1.00	19.33
ATOM	678	O	MRT	88	0.987	17.463	35.461	1.00	22.28
ATOM	679	N	ALA	89	0.822	18.063	32.619	1.00	17.87
ATOM	680	CA	ALA	89	0.749	16.895	33.386	1.00	17.24
ATOM	681	CB	ALA	89	1.609	16.506	32.333	1.00	18.47
ATOM	682	O	ALA	89	-0.701	16.285	33.339	1.00	15.30
ATOM	683	O	ALA	89	-0.976	15.164	32.816	1.00	17.43
ATOM	684	N	TYR	90	-1.524	17.219	38.145	1.00	16.10
ATOM	685	CA	TYR	90	-3.041	16.242	38.364	1.00	15.59
ATOM	686	CB	TYR	90	-3.452	17.310	39.790	1.00	14.68
ATOM	687	CG	TYR	90	-2.359	18.715	40.223	1.00	15.60
ATOM	688	CD1	TYR	90	-3.753	19.814	40.064	1.00	17.89
ATOM	689	CE1	TYR	90	-3.338	21.117	40.454	1.00	17.95
ATOM	690	CD2	TYR	90	-1.630	18.570	40.782	1.00	17.54
ATOM	691	CE2	TYR	90	-1.317	20.182	41.173	1.00	17.49
ATOM	692	OZ	TYR	90	-2.016	21.215	41.508	1.00	15.23
ATOM	693	OH	TYR	90	-1.543	22.470	41.704	1.00	19.18
ATOM	694	O	TYR	90	-3.735	17.656	37.322	1.00	15.82
ATOM	695	O	TYR	90	-4.437	13.235	37.628	1.00	17.20
ATOM	696	N	ALA	91	-3.412	17.628	36.079	1.00	16.74
ATOM	697	CA	ALA	91	-4.135	13.272	34.959	1.00	17.93
ATOM	698	CB	ALA	91	-5.177	18.262	35.731	1.00	18.19
ATOM	699	O	ALA	91	-5.125	17.611	34.631	1.00	17.59
ATOM	700	O	ALA	91	-6.139	18.230	34.010	1.00	16.63
ATOM	701	N	TRP	92	-5.330	16.417	33.015	1.00	16.91
ATOM	702	CA	TRP	92	-6.338	15.619	34.811	1.00	15.64
ATOM	703	CB	TRP	92	-6.451	14.689	33.566	1.00	17.31
ATOM	704	CG1	TRP	92	-5.413	13.562	33.804	1.00	15.34
ATOM	705	CG2	TRP	92	-6.469	15.438	32.327	1.00	15.98
ATOM	706	O	TRP	92	-3.313	14.720	33.501	1.00	16.55
ATOM	707	O	TRP	92	-6.357	14.366	32.711	1.00	17.77
ATOM	708	N	PFO	93	-8.310	14.339	33.334	1.00	18.42
ATOM	709	CD	PFO	93	-8.370	14.771	33.679	1.00	17.36
ATOM	710	CA	PFO	93	-8.568	13.470	33.447	1.00	15.13
ATOM	711	CB	PFO	93	-10.955	13.168	33.317	1.00	17.66
ATOM	712	CG	PFO	93	-10.519	13.164	33.750	1.00	16.77
ATOM	713	O	PFO	93	-7.696	12.210	33.411	1.00	18.09
ATOM	714	O	PFO	93	-7.376	11.877	33.339	1.00	18.79
ATOM	715	N	GLU	94	-7.589	11.517	33.217	1.00	18.39
ATOM	716	CA	GLU	94	-8.382	10.305	33.130	1.00	18.29
ATOM	717	CB	GLU	94	-8.948	9.791	33.189	1.00	18.57
ATOM	718	CG	GLU	94	-8.040	8.779	33.416	1.00	18.03
ATOM	719	GD	GLU	94	-7.968	8.209	33.214	1.00	18.20
ATOM	720	CE1	GLU	94	-6.968	7.666	33.239	1.00	18.76
ATOM	721	CE2	GLU	94	-8.966	8.209	33.239	1.00	18.76

ATOM	722	C	GLU	94	-5.418	10.492	36.497	1.00	17.89
ATOM	723	C	GLU	94	-4.846	9.658	37.194	1.00	16.77
ATOM	724	N	GLN	95	-4.806	11.573	36.029	1.00	15.33
ATOM	725	CA	GLN	95	-3.408	11.811	36.350	1.00	16.38
ATOM	726	CP	GLN	95	-3.845	12.931	35.491	1.00	18.34
ATOM	727	CL	GLN	95	-2.936	12.662	34.002	1.00	24.31
ATOM	728	CI	GLN	95	-2.414	13.826	33.189	1.00	29.32
ATOM	729	OH1	GLN	95	-1.215	14.943	33.061	1.00	31.33
ATOM	730	NE2	GLN	95	-3.347	14.606	32.632	1.00	31.62
ATOM	731	C	GLN	95	-3.232	12.144	37.817	1.00	13.33
ATOM	732	C	GLN	95	-2.245	11.743	38.422	1.00	14.18
ATOM	733	N	ALA	96	-4.173	12.882	38.393	1.00	12.39
ATOM	734	CA	ALA	96	-4.071	13.211	39.813	1.00	11.39
ATOM	735	CB	ALA	96	-5.229	14.11	40.243	1.00	10.37
ATOM	736	C	ALA	96	-4.090	11.911	40.611	1.00	12.30
ATOM	737	C	ALA	96	-3.311	11.748	41.549	1.00	11.30
ATOM	738	N	PHE	97	-4.970	10.973	40.236	1.00	12.82
ATOM	739	CA	PHE	97	-5.050	8.700	40.956	1.00	13.98
ATOM	740	CB	PHE	97	-6.072	8.741	40.332	1.00	13.43
ATOM	741	CD	PHE	97	-7.459	9.300	40.177	1.00	14.96
ATOM	742	CE1	PHE	97	-7.075	10.210	41.079	1.00	14.33
ATOM	743	CE2	PHE	97	-6.254	9.893	40.112	1.00	13.38
ATOM	744	CH1	PHE	97	-6.273	10.728	40.041	1.00	13.22
ATOM	745	CH2	PHE	97	-6.556	9.387	38.944	1.00	13.30
ATOM	746	CH	PHE	97	-13.061	10.310	39.859	1.00	11.30
ATOM	747	C	PHE	97	-3.699	8.999	40.971	1.00	13.62
ATOM	748	CD	PHE	97	-3.244	8.551	40.827	1.00	13.59
ATOM	749	N	GLU	98	-3.264	8.850	39.811	1.00	14.02
ATOM	750	CA	GLU	98	-1.786	7.154	39.768	1.00	16.75
ATOM	751	CB	GLU	98	-1.358	7.859	38.327	1.00	21.44
ATOM	752	CG	GLU	98	-0.245	7.604	38.268	1.00	26.53
ATOM	753	CD	GLU	98	-0.115	5.748	38.066	1.00	33.34
ATOM	754	OE1	GLU	98	-0.767	4.819	38.987	1.00	35.37
ATOM	755	OE2	GLU	98	-0.472	5.700	41.161	1.00	34.36
ATOM	756	C	GLU	98	-0.660	6.888	40.480	1.00	14.28
ATOM	757	C	GLU	98	0.134	6.279	41.169	1.00	14.35
ATOM	758	N	ASN	99	-0.585	10.116	40.394	1.00	13.45
ATOM	759	CA	ASN	99	0.496	10.844	40.941	1.00	13.89
ATOM	760	CB	ASN	99	0.607	10.339	40.335	1.00	13.69
ATOM	761	CG	ASN	99	1.171	10.236	38.690	1.00	12.59
ATOM	762	CH1	ASN	99	1.019	11.354	38.609	1.00	13.02
ATOM	763	ND2	ASN	99	0.707	13.115	38.262	1.00	13.86
ATOM	764	C	ASN	99	0.286	11.036	42.451	1.00	13.55
ATOM	765	C	ASN	99	1.256	10.913	43.216	1.00	13.87
ATOM	766	N	ALA	100	-0.970	11.117	42.879	1.00	12.15
ATOM	767	CA	ALA	100	-1.284	11.109	44.306	1.00	14.14
ATOM	768	CB	ALA	100	-2.777	11.439	44.531	1.00	13.05
ATOM	769	C	ALA	100	-0.910	9.814	44.874	1.00	13.30
ATOM	770	C	ALA	100	-0.317	8.719	45.953	1.00	13.66
ATOM	771	N	ALA	101	-1.312	8.748	44.175	1.00	12.96
ATOM	772	CA	ALA	101	-0.539	7.412	44.679	1.00	10.87
ATOM	773	CB	ALA	101	-1.590	6.318	43.755	1.00	10.90
ATOM	774	C	ALA	101	0.517	7.264	44.853	1.00	10.31
ATOM	775	C	ALA	101	0.453	6.543	45.794	1.00	13.24
ATOM	776	N	THR	102	1.122	7.766	43.958	1.00	10.77
ATOM	777	CA	THR	102	1.341	7.656	44.046	1.00	13.62
ATOM	778	CB	THR	102	3.191	6.244	41.633	1.00	11.62
ATOM	779	CG	THR	102	3.011	7.556	41.644	1.00	12.54
ATOM	780	CH1	THR	102	4.005	8.143	40.934	1.00	13.14
ATOM	781	C	THR	102	3.329	7.278	45.331	1.00	13.67
ATOM	782	C	THR	102	4.151	7.609	46.053	1.00	13.26
ATOM	783	N	VAL	103	2.672	8.410	45.600	1.00	13.01
ATOM	784	CA	VAL	103	3.175	10.118	46.769	1.00	14.15
ATOM	785	CB	VAL	103	2.771	11.602	46.844	1.00	22.15
ATOM	786	CG1	VAL	103	2.563	12.210	47.599	1.00	26.49
ATOM	787	CG2	VAL	103	3.759	12.418	45.807	1.00	21.10
ATOM	788	C	VAL	103	2.769	9.703	48.694	1.00	14.61
ATOM	789	C	VAL	103	3.477	9.519	49.093	1.00	14.93
ATOM	790	N	MET	104	1.554	8.989	48.048	1.00	13.96
ATOM	791	CA	MET	104	3.976	8.336	49.219	1.00	13.90
ATOM	792	CB	MET	104	-0.914	8.013	49.047	1.00	14.33
ATOM	793	CG	MET	104	-1.377	8.138	48.837	1.00	20.48
ATOM	794	CH	MET	104	11.516	10.132	50.059	1.00	23.82
ATOM	795	CE	MET	104	2.987	9.139	51.413	1.00	23.63
ATOM	796	C	MET	104	1.781	7.001	48.537	1.00	13.27
ATOM	797	C	MET	104	1.970	6.735	50.797	1.00	13.59
ATOM	798	N	ARG	105	2.008	6.247	48.736	1.00	13.47

ATOM	799	CA	APG	105	2.711	4.989	48.743	1.00	11.59
ATOM	800	CB	AF3	105	2.817	4.152	47.453	1.00	14.28
ATOM	801	CG	AF3	105	1.492	3.637	46.914	1.00	15.18
ATOM	802	CD	AF3	105	1.673	2.542	45.648	1.00	15.17
ATOM	803	NE	AF3	105	0.436	2.355	45.086	1.00	18.07
ATOM	804	CT	AF3	105	0.151	2.586	44.961	1.00	16.17
ATOM	805	OH	NH1	AF3	1.021	3.857	44.420	1.00	14.58
ATOM	806	CG	NH2	AF3	-1.030	2.702	43.376	1.00	16.92
ATOM	807	C	AF3	105	4.112	5.196	49.175	1.00	10.65
ATOM	808	O	AF3	105	4.684	4.494	50.009	1.00	12.75
ATOM	809	N	ALA	106	4.645	6.463	48.916	1.00	12.09
ATOM	810	CA	ALA	106	5.978	6.873	49.346	1.00	13.06
ATOM	811	CB	ALA	106	6.496	7.999	48.455	1.00	14.76
ATOM	812	C	ALA	106	6.015	7.105	50.807	1.00	15.59
ATOM	813	O	ALA	106	7.094	7.319	51.365	1.00	15.17
ATOM	814	N	GLY	107	4.841	7.430	51.420	1.00	14.50
ATOM	815	CA	GLY	107	4.759	7.806	52.811	1.00	14.62
ATOM	816	C	GLY	107	3.964	8.691	52.107	1.00	15.59
ATOM	817	O	GLY	107	3.751	9.173	54.795	1.00	16.59
ATOM	818	N	ALA	108	3.351	9.661	52.138	1.00	13.12
ATOM	819	CA	ALA	108	3.454	10.153	52.159	1.00	13.97
ATOM	820	CB	ALA	108	3.365	11.114	51.142	1.00	14.94
ATOM	821	C	ALA	108	3.142	10.754	53.009	1.00	16.46
ATOM	822	O	ALA	108	6.896	9.151	52.864	1.00	14.12
ATOM	823	N	ARG	109	9.461	11.130	53.880	1.00	14.14
ATOM	824	CA	ARG	109	-0.863	10.919	54.440	1.00	14.86
ATOM	825	CB	ARG	109	-0.847	11.137	55.931	1.00	14.17
ATOM	826	CG	ARG	109	-0.812	10.453	56.136	1.00	14.97
ATOM	827	CH	ARG	109	-0.121	9.156	56.016	1.00	16.84
ATOM	828	NH1	ARG	109	0.619	11.133	55.188	1.00	14.13
ATOM	829	C	ARG	109	-1.601	11.131	57.777	1.00	13.58
ATOM	830	O	ARG	109	-3.102	11.116	62.476	1.00	15.82
ATOM	831	N	THR	110	-1.427	12.138	61.891	1.00	13.54
ATOM	832	CA	THR	110	-2.413	13.104	62.132	1.00	14.61
ATOM	833	CB	THR	110	-3.428	14.138	62.194	1.00	14.67
ATOM	834	CG	THR	110	-3.395	15.990	62.919	1.00	19.21
ATOM	835	CD	THR	110	-4.143	16.871	64.171	1.00	20.75
ATOM	836	CE	THR	110	-5.445	16.164	64.495	1.00	18.93
ATOM	837	C	THR	110	-1.376	14.431	62.119	1.00	13.50
ATOM	838	O	THR	110	-0.358	14.135	62.185	1.00	14.01
ATOM	839	N	VAL	111	-2.323	14.410	60.171	1.00	13.28
ATOM	840	CA	VAL	111	-1.165	15.107	63.066	1.00	15.44
ATOM	841	CB	VAL	111	-2.175	14.136	62.762	1.00	18.91
ATOM	842	CG1	VAL	111	-1.500	15.614	66.164	1.00	21.41
ATOM	843	CG2	VAL	111	-1.104	13.416	62.691	1.00	16.70
ATOM	844	C	VAL	111	-2.371	16.944	69.000	1.00	15.84
ATOM	845	O	VAL	111	-3.420	17.138	69.114	1.00	16.27
ATOM	846	N	LYS	112	-1.411	17.169	68.136	1.00	18.00
ATOM	847	CA	LYS	112	-1.110	19.156	68.375	1.00	17.62
ATOM	848	CB	LYS	112	-0.812	20.114	69.824	1.00	16.94
ATOM	849	CG	LYS	112	-1.199	21.650	69.103	1.00	18.28
ATOM	850	CD	LYS	112	-0.168	22.431	50.154	1.00	20.19
ATOM	851	CE	LYS	112	0.738	22.675	50.138	1.00	21.39
ATOM	852	N1	LYS	112	1.171	23.485	49.116	1.00	23.79
ATOM	853	C	LYS	112	-1.128	19.197	47.032	1.00	18.52
ATOM	854	O	LYS	112	-0.741	19.161	46.135	1.00	18.26
ATOM	855	N	ILE	113	-2.890	20.360	46.163	1.00	18.76
ATOM	856	CA	ILE	113	-2.876	20.436	45.187	1.00	19.67
ATOM	857	CB	ILE	113	-3.852	19.167	44.159	1.00	22.73
ATOM	858	C2	ILE	113	-3.270	18.173	44.169	1.00	22.09
ATOM	859	C1	ILE	113	8.131	19.070	46.167	1.00	21.18
ATOM	860	CG1	ILE	113	5.111	19.041	44.116	1.00	20.35
ATOM	861	C	ILE	113	-3.344	18.166	45.135	1.00	20.68
ATOM	862	O	ILE	113	4.266	22.664	45.119	1.00	23.09
ATOM	863	N	GLU	114	-2.775	23.355	44.119	1.00	20.93
ATOM	864	CA	GLU	114	-3.094	24.168	44.141	1.00	22.18
ATOM	865	CB	GLU	114	-1.873	25.119	43.119	1.00	23.81
ATOM	866	CG	GLU	114	0.715	25.378	44.177	1.00	25.34
ATOM	867	CD	GLU	114	0.474	26.092	43.172	1.00	24.17
ATOM	868	CE	GLU	114	1.179	26.741	43.144	1.00	26.17
ATOM	869	CG2	GLU	114	1.866	25.247	44.143	1.00	24.13
ATOM	870	C	GLU	114	4.147	24.707	43.034	1.00	24.10
ATOM	871	O	GLU	114	4.153	24.077	43.035	1.00	22.39
ATOM	872	N	GLY	115	-5.116	25.636	43.429	1.00	22.55
ATOM	873	CA	GLY	115	0.124	25.933	43.534	1.00	24.88
ATOM	874	C	GLY	115	0.191	26.129	43.137	1.00	24.81
ATOM	875	O	GLY	115	0.111	26.134	43.141	1.00	24.81

ATOM	876	N	GLY	116	-8.569	26.582	42.496	1.00	25.06
ATOM	877	CA	GLY	116	-9.889	26.767	43.056	1.00	25.41
ATOM	878	C	GLY	116	-19.964	25.864	42.430	1.00	26.85
ATOM	879	O	GLY	116	-10.767	24.659	42.346	1.00	26.53
ATOM	880	N	GLU	117	-12.105	26.458	42.166	1.00	26.32
ATOM	881	CA	GLU	117	-11.268	25.782	41.696	1.00	27.23
ATOM	882	CB	GLU	117	-14.205	26.810	40.953	1.00	31.15
ATOM	883	CG	GLU	117	-15.191	27.444	41.923	1.00	36.76
ATOM	884	CD	GLU	117	-16.448	26.615	42.091	1.00	40.05
ATOM	885	OE1	GLU	117	-16.341	25.369	42.112	1.00	39.80
ATOM	886	OE2	GLU	117	-15.543	27.210	42.211	1.00	41.07
ATOM	887	C	GLU	117	-13.071	24.661	40.632	1.00	24.91
ATOM	888	O	GLU	117	-13.621	23.592	40.715	1.00	24.23
ATOM	889	N	TRP	118	-12.155	24.904	39.622	1.00	23.95
ATOM	890	CA	TRP	118	-11.880	23.906	38.558	1.00	23.05
ATOM	891	CB	TRP	118	-10.853	24.457	37.574	1.00	22.93
ATOM	892	CG	TRP	118	-9.417	24.453	38.027	1.00	22.06
ATOM	893	CD2	TRP	118	-8.430	25.412	37.736	1.00	21.29
ATOM	894	OE2	TRP	118	-7.027	25.836	36.356	1.00	21.35
ATOM	895	OE3	TRP	118	-8.449	22.131	37.015	1.00	21.59
ATOM	896	CD1	TRP	118	-8.383	25.179	38.799	1.00	21.77
ATOM	897	NE1	TRP	118	-7.472	25.607	38.955	1.00	21.95
ATOM	898	CD2	TRP	118	-6.049	25.081	38.212	1.00	21.19
ATOM	899	CD3	TRP	118	-7.073	21.848	36.932	1.00	19.76
ATOM	900	CH2	TRP	118	-6.093	21.986	37.556	1.00	19.01
ATOM	901	C	TRP	118	-11.615	22.582	39.137	1.00	21.71
ATOM	902	O	TRP	118	-11.894	21.542	38.453	1.00	21.61
ATOM	903	N	LEU	119	-10.933	22.583	40.235	1.00	22.51
ATOM	904	CA	LEU	119	-19.445	21.543	41.017	1.00	21.17
ATOM	905	CB	LEU	119	-8.323	21.686	42.039	1.00	22.06
ATOM	906	CG	LEU	119	-7.951	21.956	41.397	1.00	22.79
ATOM	907	CD1	LEU	119	-6.976	22.370	42.489	1.00	22.77
ATOM	908	CD2	LEU	119	-7.469	20.690	40.691	1.00	24.34
ATOM	909	C	LEU	119	-11.502	20.541	41.759	1.00	22.71
ATOM	910	O	LEU	119	-11.232	19.422	42.193	1.00	21.91
ATOM	911	N	VAL	120	-11.689	21.101	41.903	1.00	19.10
ATOM	912	CA	VAL	120	-10.766	20.419	42.658	1.00	19.95
ATOM	913	CB	VAL	120	-15.127	21.122	42.479	1.00	22.05
ATOM	914	CG1	VAL	120	-16.259	20.225	42.907	1.00	24.11
ATOM	915	CG2	VAL	120	-15.150	22.428	43.261	1.00	25.19
ATOM	916	C	VAL	120	-11.921	18.940	42.301	1.00	18.87
ATOM	917	O	VAL	120	-15.961	18.092	43.166	1.00	16.89
ATOM	918	N	GLU	121	-14.604	18.622	41.015	1.00	17.81
ATOM	919	CA	GLU	121	-14.163	17.227	40.611	1.00	17.82
ATOM	920	CB	GLU	121	-14.344	17.151	39.094	1.00	21.87
ATOM	921	CG	GLU	121	-13.418	15.733	39.576	1.00	25.19
ATOM	922	CD	GLU	121	-14.824	15.853	37.114	1.00	31.46
ATOM	923	OE1	GLU	121	-14.246	16.290	36.290	1.00	32.78
ATOM	924	OE2	GLU	121	-15.717	14.846	36.793	1.00	35.12
ATOM	925	C	GLU	121	-17.977	16.361	41.057	1.00	16.83
ATOM	926	O	GLU	121	-13.153	15.288	41.592	1.00	15.89
ATOM	927	N	THR	122	-11.772	16.901	40.846	1.00	16.35
ATOM	928	CA	THR	122	-10.557	16.188	41.230	1.00	15.30
ATOM	929	CB	THR	122	-9.291	17.010	40.858	1.00	16.10
ATOM	930	CG1	THR	122	-8.297	17.251	39.447	1.00	16.76
ATOM	931	CG2	THR	122	-8.009	16.250	41.215	1.00	15.78
ATOM	932	C	THR	122	-10.571	15.831	42.729	1.00	17.85
ATOM	933	O	THR	122	-10.360	14.769	43.145	1.00	14.77
ATOM	934	N	VAL	123	-10.995	16.896	43.519	1.00	16.77
ATOM	935	CA	VAL	123	-10.940	16.69	44.582	1.00	15.70
ATOM	936	CB	VAL	123	-11.265	17.993	45.722	1.00	16.72
ATOM	937	CG1	VAL	123	-11.357	17.733	47.217	1.00	15.84
ATOM	938	CG2	VAL	123	-10.194	19.023	46.431	1.00	17.85
ATOM	939	C	VAL	123	-11.964	15.649	45.392	1.00	16.79
ATOM	940	O	VAL	123	-11.685	14.793	46.237	1.00	13.71
ATOM	941	N	GLN	124	-13.155	15.738	44.507	1.00	15.90
ATOM	942	CA	GLN	124	-14.327	14.790	45.122	1.00	15.12
ATOM	943	CB	GLN	124	-15.499	15.146	44.353	1.00	19.71
ATOM	944	CG	GLN	124	-16.018	16.566	44.586	1.00	27.73
ATOM	945	CD	GLN	124	-15.335	16.631	43.871	1.00	33.93
ATOM	946	OE1	GLN	124	-17.414	16.825	42.641	1.00	33.93
ATOM	947	NE2	GLN	124	-18.370	17.190	44.643	1.00	28.31
ATOM	948	C	GLN	124	-13.826	13.350	44.815	1.00	18.24
ATOM	949	O	GLN	124	-14.945	12.439	43.621	1.00	17.51
ATOM	950	N	MET	125	-13.218	13.191	45.648	1.00	16.58
ATOM	951	CA	MET	125	-12.798	11.929	43.239	1.00	17.11
ATOM	952	CB	MET	125	-12.113	11.792	41.735	1.00	17.13

ATOM	953	CG	MET	125	-13.843	12.007	40.950	1.00	20.76
ATOM	954	SD	MET	125	-13.596	12.014	39.156	1.00	21.82
ATOM	955	CE	MET	125	-13.472	10.274	38.825	1.00	24.59
ATOM	956	C	MET	125	-11.578	11.317	44.011	1.00	15.45
ATOM	957	HN	MET	125	-11.513	10.143	44.357	1.00	15.81
ATOM	958	N	LEU	126	-10.618	12.142	44.283	1.00	15.53
ATOM	959	CA	LEU	126	-8.458	11.776	45.047	1.00	16.43
ATOM	960	CR	LEU	126	-8.486	12.941	45.315	1.00	15.46
ATOM	961	CG	LEU	126	-7.491	13.046	44.056	1.00	16.54
ATOM	962	CD1	LEU	126	-6.569	14.439	44.166	1.00	17.29
ATOM	963	CD2	LEU	126	-6.496	11.983	44.387	1.00	16.74
ATOM	964	C	LEU	126	-9.914	11.264	46.316	1.00	17.65
ATOM	965	O	LEU	126	-9.459	10.217	46.682	1.00	15.07
ATOM	966	N	THR	127	-10.831	12.001	47.043	1.00	18.88
ATOM	967	CA	THR	127	-11.870	11.648	46.257	1.00	22.38
ATOM	968	CR	THR	127	-12.489	12.630	46.788	1.00	24.31
ATOM	969	CG1	THR	127	-11.971	13.967	46.325	1.00	30.18
ATOM	970	CG2	THR	127	-13.618	12.265	50.157	1.00	28.58
ATOM	971	C	THR	127	-11.950	10.215	48.484	1.00	21.91
ATOM	972	O	THR	127	-11.564	9.449	49.279	1.00	20.97
ATOM	973	N	SER	128	-12.354	7.330	47.381	1.00	21.67
ATOM	974	CA	SER	128	-13.411	8.389	47.873	1.00	21.31
ATOM	975	CR	SER	128	-14.043	8.332	46.439	1.00	26.49
ATOM	976	CG	SER	128	-14.651	9.613	49.130	1.00	27.74
ATOM	977	CF	SER	128	-15.046	9.332	48.391	1.00	28.96
ATOM	978	OE1	SER	128	-17.000	9.469	48.669	1.00	26.96
ATOM	979	OE2	SER	128	-15.825	9.488	48.131	1.00	29.94
ATOM	980	C	SER	128	-12.435	7.335	47.740	1.00	21.94
ATOM	981	O	SER	128	-12.641	6.333	47.358	1.00	23.58
ATOM	982	N	ARG	129	-11.324	7.445	46.620	1.00	19.89
ATOM	983	CA	ARG	129	-10.291	6.939	48.076	1.00	18.15
ATOM	984	CR	ARG	129	-9.113	7.236	44.392	1.00	18.25
ATOM	985	CG	ARG	129	-10.712	6.334	48.664	1.00	18.43
ATOM	986	CD	ARG	129	-10.482	7.238	41.323	1.00	18.74
ATOM	987	NE	ARG	129	-11.314	7.436	41.326	1.00	18.77
ATOM	988	CH	ARG	129	-12.192	7.279	41.191	1.00	18.62
ATOM	989	NH1	ARG	129	-13.120	8.459	42.147	1.00	18.64
ATOM	990	NH2	ARG	129	-13.554	7.433	43.144	1.00	18.63
ATOM	991	C	ARG	129	-9.102	6.336	47.181	1.00	18.41
ATOM	992	O	ARG	129	-6.145	6.571	43.985	1.00	17.32
ATOM	993	N	ALA	130	-9.818	7.134	48.186	1.00	18.07
ATOM	994	CA	ALA	130	-8.789	7.139	44.695	1.00	17.95
ATOM	995	CR	ALA	130	-8.201	5.722	44.368	1.00	16.84
ATOM	996	C	ALA	130	-7.674	8.164	44.460	1.00	18.35
ATOM	997	O	ALA	130	-6.321	8.015	50.138	1.00	17.72
ATOM	998	N	VAL	131	-7.684	9.211	43.443	1.00	13.16
ATOM	999	CA	VAL	131	-6.656	10.236	43.123	1.00	13.21
ATOM	1000	CP	VAL	131	-6.059	10.538	47.130	1.00	13.83
ATOM	1001	CG1	VAL	131	-4.972	11.599	47.556	1.00	19.03
ATOM	1002	CG2	VAL	131	-5.502	9.264	47.124	1.00	18.68
ATOM	1003	C	VAL	131	-7.182	11.552	49.104	1.00	17.21
ATOM	1004	O	VAL	131	-7.921	12.274	49.659	1.00	17.48
ATOM	1005	N	PRO	132	-6.768	11.858	50.647	1.00	17.96
ATOM	1006	CA	PRO	132	-6.078	10.981	51.609	1.00	16.97
ATOM	1007	CR	PRO	132	-7.195	13.169	51.680	1.00	16.93
ATOM	1008	CG	PRO	132	-6.775	12.939	53.143	1.00	17.68
ATOM	1009	CD	PRO	132	-5.667	11.944	52.079	1.00	22.79
ATOM	1010	C	PRO	132	-6.495	14.279	50.980	1.00	16.36
ATOM	1011	O	PRO	132	-5.335	14.159	50.465	1.00	14.89
ATOM	1012	N	VAL	133	-7.207	15.381	50.345	1.00	15.39
ATOM	1013	CA	VAL	133	-6.666	16.534	50.041	1.00	14.13
ATOM	1014	CR	VAL	133	-7.486	16.616	48.772	1.00	14.92
ATOM	1015	CG1	VAL	133	-6.921	18.011	48.337	1.00	12.34
ATOM	1016	CG2	VAL	133	-7.495	15.578	47.474	1.00	13.03
ATOM	1017	C	VAL	133	-6.831	17.831	50.355	1.00	14.73
ATOM	1018	O	VAL	133	-7.524	18.114	51.632	1.00	14.75
ATOM	1019	N	TYR	134	-5.546	18.571	50.630	1.00	15.49
ATOM	1020	CA	TYR	134	-5.355	19.348	51.373	1.00	14.56
ATOM	1021	CR	TYR	134	-4.061	18.946	51.549	1.00	14.83
ATOM	1022	CG	TYR	134	-7.849	21.157	52.681	1.00	17.18
ATOM	1023	C	TYR	134	-5.998	20.934	50.121	1.00	16.53
ATOM	1024	O	TYR	134	-4.847	20.134	49.143	1.00	16.66
ATOM	1025	N	GLY	135	-6.276	21.331	50.315	1.00	16.38
ATOM	1026	CA	GLY	135	-6.371	21.964	49.176	1.00	16.44
ATOM	1027	C	GLY	135	-5.292	23.919	49.263	1.00	16.46
ATOM	1028	O	GLY	135	-4.615	23.940	50.789	1.00	16.46
ATOM	1029	N	GLY	135	-5.131	24.869	48.338	1.00	16.50

ATOM	1030	CA	HIS	136	-4.147	25.868	43.435	1.00	18.97
ATOM	1031	C	HIS	136	-4.624	27.955	47.603	1.00	21.58
ATOM	1032	O	HIS	136	-4.717	26.985	46.380	1.00	21.19
ATOM	1033	CB	HIS	136	-2.810	25.332	47.849	1.00	19.18
ATOM	1034	CG	HIS	136	-1.633	26.246	48.136	1.00	19.85
ATOM	1035	ND1	HIS	136	-0.349	25.734	48.009	1.00	21.61
ATOM	1036	CE1	HIS	136	0.413	26.819	48.235	1.00	22.89
ATOM	1037	CD	HIS	136	-1.614	27.568	48.400	1.00	19.60
ATOM	1038	NE2	HIS	136	-0.291	27.929	48.474	1.00	20.06
ATOM	1039	N	LEU	137	-4.915	28.167	48.278	1.00	23.56
ATOM	1040	CA	LEU	137	-5.399	29.374	48.617	1.00	24.34
ATOM	1041	CB	LEU	137	-6.850	29.855	48.019	1.00	21.33
ATOM	1042	CG	LEU	137	-7.584	28.374	47.581	1.00	24.22
ATOM	1043	CD1	LEU	137	-9.203	28.871	48.386	1.00	24.52
ATOM	1044	CD2	LEU	137	-8.672	28.810	48.181	1.00	24.79
ATOM	1045	C	LEU	137	-4.529	30.538	47.979	1.00	26.25
ATOM	1046	O	LEU	137	-5.736	30.512	48.969	1.00	28.62
ATOM	1047	N	GLY	138	-4.617	31.880	48.169	1.00	28.18
ATOM	1048	CA	GLY	138	-5.847	32.137	47.471	1.00	26.33
ATOM	1049	C	GLY	138	-4.700	32.256	48.674	1.00	31.60
ATOM	1050	O	GLY	138	-1.619	33.876	47.138	1.00	33.34
ATOM	1051	N	LEU	139	-11.469	32.139	48.916	1.00	34.48
ATOM	1052	CA	LEU	139	-6.122	33.311	48.008	1.00	36.15
ATOM	1053	CB	LEU	139	0.734	34.382	48.787	1.00	37.11
ATOM	1054	CG	LEU	139	1.969	34.112	48.935	1.00	38.00
ATOM	1055	CD1	LEU	139	2.839	33.331	48.854	1.00	40.53
ATOM	1056	CD2	LEU	139	2.780	33.335	48.852	1.00	37.05
ATOM	1057	C	LEU	139	0.150	33.377	48.668	1.00	35.35
ATOM	1058	O	LEU	139	0.614	32.184	48.442	1.00	37.34
ATOM	1059	N	THR	140	-0.104	32.331	48.331	1.00	37.50
ATOM	1060	CA	THR	140	0.968	28.478	48.001	1.00	37.56
ATOM	1061	CB	THR	140	-1.057	28.365	48.214	1.00	38.32
ATOM	1062	CG1	THR	140	-1.179	27.334	48.145	1.00	38.58
ATOM	1063	CG2	THR	140	-2.301	28.318	48.055	1.00	37.64
ATOM	1064	C	THR	140	1.343	31.344	48.349	1.00	37.90
ATOM	1065	O	THR	140	1.314	31.344	48.331	1.00	38.38
ATOM	1066	N	PRO	141	2.465	28.846	48.147	1.00	38.90
ATOM	1067	CA	PRO	141	2.619	28.337	48.130	1.00	37.41
ATOM	1068	CB	PRO	141	3.779	28.649	48.117	1.00	37.69
ATOM	1069	CE	PRO	141	3.741	28.115	48.137	1.00	37.82
ATOM	1070	CG	PRO	141	3.864	28.230	48.056	1.00	38.43
ATOM	1071	C	PRO	141	3.831	28.399	48.181	1.00	37.49
ATOM	1072	O	PRO	141	4.601	28.252	48.517	1.00	38.92
ATOM	1073	N	GLN	142	2.946	27.370	48.700	1.00	38.97
ATOM	1074	CA	GLN	142	2.977	27.384	48.470	1.00	37.63
ATOM	1075	CB	GLN	142	2.071	28.485	48.636	1.00	38.67
ATOM	1076	CG	GLN	142	2.897	28.600	48.081	1.00	38.13
ATOM	1077	CD	GLN	142	1.869	28.471	48.488	1.00	38.64
ATOM	1078	OE1	GLN	142	0.930	28.186	48.787	1.00	38.98
ATOM	1079	NE2	GLN	142	2.117	28.317	48.583	1.00	38.66
ATOM	1080	C	GLN	142	2.507	27.920	48.382	1.00	38.52
ATOM	1081	O	GLN	142	2.454	27.685	48.111	1.00	38.49
ATOM	1082	N	SER	143	1.719	28.237	48.562	1.00	38.73
ATOM	1083	CA	SER	143	1.219	28.824	48.513	1.00	40.92
ATOM	1084	CB	SER	143	-0.274	28.112	48.732	1.00	40.43
ATOM	1085	CG	SER	143	-1.954	28.946	48.606	1.00	41.24
ATOM	1086	C	SER	143	1.381	31.144	48.434	1.00	41.64
ATOM	1087	O	SER	143	1.449	31.175	48.076	1.00	41.46
ATOM	1088	N	VAL	144	3.233	31.110	48.016	1.00	42.62
ATOM	1089	CA	VAL	144	4.073	31.306	48.135	1.00	43.78
ATOM	1090	CB	VAL	144	3.463	31.993	48.492	1.00	43.32
ATOM	1091	CG1	VAL	144	3.154	31.031	48.588	1.00	43.74
ATOM	1092	CG2	VAL	144	3.223	31.373	48.616	1.00	43.56
ATOM	1093	C	VAL	144	3.213	31.918	47.941	1.00	44.58
ATOM	1094	O	VAL	144	4.473	31.112	47.405	1.00	41.38
ATOM	1095	N	ASN	145	4.113	31.680	46.512	1.00	43.34
ATOM	1096	CA	ASN	145	4.211	31.549	46.130	1.00	47.31
ATOM	1097	CB	ASN	145	4.606	31.366	46.214	1.00	47.34
ATOM	1098	CG	ASN	145	5.593	30.821	46.105	1.00	48.61
ATOM	1099	CD	ASN	145	7.003	31.489	46.164	1.00	48.34
ATOM	1100	C	ASN	145	6.043	29.600	45.631	1.00	44.81
ATOM	1101	O	ASN	145	2.918	33.173	46.640	1.00	47.85
ATOM	1102	N	ASN	145	2.903	31.613	45.585	1.00	47.79
ATOM	1103	H	ILE	146	1.897	31.003	45.410	1.00	48.31
ATOM	1104	CA	ILE	146	0.578	33.583	45.055	1.00	49.69
ATOM	1105	CB	ILE	146	1.174	32.593	45.589	1.00	49.17
ATOM	1106	CG	ILE	146	-1.913	34.335	45.092	1.00	48.67

ATOM	1107	CG1	ILE	146	-0.485	31.290	34.981	1.00	48.60
ATOM	1108	CD1	ILE	146	-0.628	31.262	33.472	1.00	48.16
ATOM	1109	C	ILE	146	0.426	34.976	35.623	1.00	51.32
ATOM	1110	O	ILE	146	-0.045	35.880	34.934	1.00	51.26
ATOM	1111	N	PHE	147	0.821	35.154	36.879	1.00	53.28
ATOM	1112	CA	PHE	147	0.736	36.448	37.553	1.00	54.12
ATOM	1113	CB	PHE	147	0.713	36.254	38.012	1.00	55.12
ATOM	1114	CG	PHE	147	-0.198	35.152	39.528	1.00	56.36
ATOM	1115	CD1	PHE	147	-1.532	35.177	39.218	1.00	57.26
ATOM	1116	CD2	PHE	147	0.303	34.084	40.266	1.00	57.27
ATOM	1117	CE1	PHE	147	-2.400	34.151	39.634	1.00	57.90
ATOM	1118	CE2	PHE	147	-0.533	33.052	40.688	1.00	57.81
ATOM	1119	CZ	PHE	147	-1.867	33.086	40.371	1.00	58.12
ATOM	1120	C	PHE	147	1.914	37.350	37.188	1.00	54.46
ATOM	1121	O	PHE	147	1.937	38.528	37.544	1.00	54.14
ATOM	1122	N	GLY	148	2.890	36.787	36.483	1.00	55.28
ATOM	1123	CA	GLY	148	4.056	37.555	36.090	1.00	56.16
ATOM	1124	C	GLY	148	4.972	37.817	37.268	1.00	56.62
ATOM	1125	O	GLY	148	5.699	38.809	37.794	1.00	56.49
ATOM	1126	N	GLY	149	4.975	36.960	38.149	1.00	57.55
ATOM	1127	CA	GLY	149	5.781	37.068	38.411	1.00	58.07
ATOM	1128	C	GLY	149	4.967	37.000	37.633	1.00	58.44
ATOM	1129	O	GLY	149	3.816	36.305	39.611	1.00	59.46
ATOM	1130	N	TYR	150	5.185	37.397	41.117	1.00	61.00
ATOM	1131	CA	TYR	150	5.018	36.467	43.108	1.00	62.09
ATOM	1132	CB	TYR	150	3.029	35.830	44.068	1.00	62.64
ATOM	1133	CG	TYR	150	6.779	34.652	43.484	1.00	63.17
ATOM	1134	CD1	TYR	150	7.912	34.848	42.688	1.00	64.11
ATOM	1135	CE1	TYR	150	8.621	32.764	43.142	1.00	64.58
ATOM	1136	CH1	TYR	150	6.355	33.384	43.718	1.00	64.03
ATOM	1137	CE2	TYR	150	7.038	32.252	43.111	1.00	63.87
ATOM	1138	CG	TYR	150	8.169	32.474	42.389	1.00	64.57
ATOM	1139	CH	TYR	150	8.840	31.407	41.849	1.00	64.43
ATOM	1140	C	TYR	150	4.438	37.711	43.744	1.00	62.46
ATOM	1141	O	TYR	150	5.141	38.523	44.137	1.00	62.18
ATOM	1142	N	LYS	151	3.113	37.883	43.601	1.00	62.64
ATOM	1143	CA	LYS	151	3.414	39.038	44.191	1.00	62.83
ATOM	1144	CB	LYS	151	1.766	32.642	44.020	1.00	63.50
ATOM	1145	CG	LYS	151	2.501	30.319	41.990	1.00	64.61
ATOM	1146	CD	LYS	151	2.685	31.188	40.916	1.00	65.48
ATOM	1147	CE	LYS	151	3.100	31.131	39.601	1.00	66.46
ATOM	1148	NZ	LYS	151	2.464	42.596	38.878	1.00	66.97
ATOM	1149	C	LYS	151	1.381	38.615	48.161	1.00	62.18
ATOM	1150	O	LYS	151	1.032	37.433	45.175	1.00	62.06
ATOM	1151	N	VAL	152	0.815	39.586	45.895	1.00	61.53
ATOM	1152	CA	VAL	152	-0.204	39.369	45.897	1.00	60.97
ATOM	1153	CB	VAL	152	-0.190	40.378	48.010	1.00	60.76
ATOM	1154	CG1	VAL	152	-1.312	40.039	47.077	1.00	60.74
ATOM	1155	CG2	VAL	152	1.193	40.448	48.603	1.00	60.69
ATOM	1156	C	VAL	152	-1.601	38.263	46.195	1.00	60.64
ATOM	1157	O	VAL	152	-1.944	40.116	45.159	1.00	60.43
ATOM	1158	N	GLN	153	-2.341	38.205	46.608	1.00	60.42
ATOM	1159	CA	GLN	153	-3.723	38.032	46.111	1.00	60.14
ATOM	1160	CB	GLN	153	-3.913	36.620	45.181	1.00	60.20
ATOM	1161	CG	GLN	153	-3.497	36.402	44.140	1.00	61.33
ATOM	1162	CD	GLN	153	-1.923	36.543	43.633	1.00	61.41
ATOM	1163	OE1	GLN	153	-1.169	35.891	44.172	1.00	62.43
ATOM	1164	NE1	GLN	153	-1.603	37.582	43.191	1.00	60.36
ATOM	1165	C	GLN	153	-4.713	38.333	47.111	1.00	59.42
ATOM	1166	O	GLN	153	-4.452	38.443	48.373	1.00	59.56
ATOM	1167	N	GLY	154	-5.963	38.410	46.433	1.00	58.76
ATOM	1168	CA	GLY	154	-7.087	38.685	47.148	1.00	58.16
ATOM	1169	C	GLY	154	-7.425	40.146	47.211	1.00	57.86
ATOM	1170	O	GLY	154	-8.548	40.489	48.138	1.00	58.89
ATOM	1171	N	ARG	155	-8.197	41.013	47.111	1.00	58.86
ATOM	1172	CA	ARG	155	-6.732	41.455	47.330	1.00	58.99
ATOM	1173	CB	ARG	155	-5.135	40.174	46.713	1.00	59.37
ATOM	1174	CG	ARG	155	-4.294	42.990	47.170	1.00	60.93
ATOM	1175	CH	ARG	155	-4.262	43.586	48.173	1.00	62.00
ATOM	1176	NE	ARG	155	-6.192	43.409	49.247	1.00	62.89
ATOM	1177	CZ	ARG	155	-1.813	43.969	49.137	1.00	63.05
ATOM	1178	NH1	ARG	155	-1.773	44.759	48.157	1.00	63.13
ATOM	1179	NH2	ARG	155	-6.717	43.733	49.933	1.00	63.17
ATOM	1180	C	ARG	155	-9.990	42.711	46.575	1.00	57.05
ATOM	1181	O	ARG	155	-8.113	42.359	45.425	1.00	57.18
ATOM	1182	N	GLY	156	-8.908	43.513	47.184	1.00	59.62
ATOM	1183	CA	GLY	156	-10.133	43.992	48.498	1.00	58.12

ATOM	1184	C	GLY	156	-11.306	43.028	46.976	1.00	52.09
ATOM	1185	O	GLY	156	-11.123	41.920	47.501	1.00	51.92
ATOM	1186	N	ASP	157	-12.511	43.552	46.790	1.00	50.40
ATOM	1187	CA	ASP	157	-13.711	42.872	47.208	1.00	49.19
ATOM	1188	CB	ASP	157	-14.914	41.832	47.090	1.00	50.73
ATOM	1189	CG	ASP	157	-14.697	45.121	47.854	1.00	51.46
ATOM	1190	OD1	ASP	157	-14.897	45.122	49.086	1.00	50.41
ATOM	1191	OD2	ASP	157	-14.704	46.126	47.216	1.00	52.00
ATOM	1192	C	ASP	157	-13.991	42.654	46.358	1.00	48.08
ATOM	1193	O	ASP	157	-14.131	40.544	46.881	1.00	46.48
ATOM	1194	N	GLU	158	-12.942	41.811	45.043	1.00	46.00
ATOM	1195	CA	GLU	158	-14.178	40.718	44.116	1.00	45.67
ATOM	1196	CB	GLU	158	-14.092	41.125	42.625	1.00	48.09
ATOM	1197	CG	GLU	158	-14.387	40.169	41.628	1.00	50.76
ATOM	1198	CD	GLU	158	-14.503	40.155	40.132	1.00	52.12
ATOM	1199	OE1	GLU	158	-15.430	41.764	40.032	1.00	55.10
ATOM	1200	GF2	GLU	158	-13.070	40.431	44.367	1.00	54.38
ATOM	1201	C	GLU	158	-13.187	39.758	44.229	1.00	41.76
ATOM	1202	O	GLU	158	-12.783	39.428	44.129	1.00	41.87
ATOM	1203	N	ALA	159	-21.398	39.199	41.237	1.00	41.77
ATOM	1204	CA	ALA	159	-16.339	38.362	44.487	1.00	39.73
ATOM	1205	CB	ALA	159	-9.681	39.347	44.444	1.00	19.61
ATOM	1206	C	ALA	159	-11.061	38.177	43.014	1.00	18.01
ATOM	1207	O	ALA	159	-16.837	36.358	45.234	1.00	17.38
ATOM	1208	N	GLY	160	-11.419	38.744	45.840	1.00	16.38
ATOM	1209	CA	GLY	160	-11.647	38.771	43.131	1.00	15.01
ATOM	1210	C	GLY	160	-11.718	37.410	43.194	1.00	15.10
ATOM	1211	O	GLY	160	-11.718	36.930	43.761	1.00	14.10
ATOM	1212	N	ASP	161	-11.091	37.817	47.331	1.00	13.83
ATOM	1213	CA	ASP	161	-14.123	36.671	47.373	1.00	13.85
ATOM	1214	CB	ASP	161	-16.351	37.734	47.038	1.00	14.66
ATOM	1215	CG	ASP	161	-16.651	39.086	47.761	1.00	15.47
ATOM	1216	OD1	ASP	161	-16.747	38.196	49.119	1.00	14.80
ATOM	1217	OD2	ASP	161	-16.942	40.056	47.355	1.00	17.16
ATOM	1218	C	ASP	161	-14.887	38.777	46.318	1.00	12.66
ATOM	1219	O	ASP	161	-14.953	37.764	46.610	1.00	10.79
ATOM	1220	N	ASN	162	-12.877	37.912	45.733	1.00	13.42
ATOM	1221	CA	ASN	162	-12.937	34.890	44.871	1.00	14.32
ATOM	1222	CB	ASN	162	-12.810	37.160	43.312	1.00	15.43
ATOM	1223	CG	ASN	162	-12.849	34.069	42.630	1.00	40.34
ATOM	1224	CD	ASN	162	-12.857	34.057	42.235	1.00	40.13
ATOM	1225	OE1	ASN	162	-14.770	34.053	41.734	1.00	45.74
ATOM	1226	NE2	ASN	162	-12.966	32.056	42.374	1.00	44.65
ATOM	1227	C	ASN	162	-12.815	33.613	45.683	1.00	32.45
ATOM	1228	O	ASN	162	-13.276	31.319	45.575	1.00	32.17
ATOM	1229	N	LEU	163	-12.308	34.012	46.474	1.00	31.71
ATOM	1230	CA	LEU	163	-12.119	33.074	47.375	1.00	31.82
ATOM	1231	CB	LEU	163	-16.305	33.792	48.017	1.00	13.47
ATOM	1232	CG	LEU	163	-11.739	34.358	47.173	1.00	15.14
ATOM	1233	CD1	LEU	163	-7.618	33.154	48.064	1.00	14.34
ATOM	1234	CD2	LEU	163	-8.146	33.212	46.472	1.00	16.22
ATOM	1235	C	LEU	163	-12.059	31.363	48.379	1.00	21.54
ATOM	1236	O	LEU	163	-11.463	31.150	48.456	1.00	16.22
ATOM	1237	N	LEU	164	-12.842	33.124	48.354	1.00	30.37
ATOM	1238	CA	LEU	164	-13.443	32.056	49.015	1.00	19.55
ATOM	1239	CB	LEU	164	-14.102	33.663	50.530	1.00	31.08
ATOM	1240	CG	LEU	164	-13.396	33.461	51.925	1.00	31.21
ATOM	1241	CD1	LEU	164	-16.011	34.715	52.345	1.00	35.61
ATOM	1242	CD2	LEU	164	-16.313	32.261	51.937	1.00	32.19
ATOM	1243	C	LEU	164	-11.737	31.510	49.263	1.00	26.16
ATOM	1244	O	LEU	164	-13.959	30.440	49.741	1.00	28.39
ATOM	1245	N	TRP	165	-13.113	31.876	47.902	1.00	27.15
ATOM	1246	CA	TRP	165	-16.473	31.031	47.173	1.00	28.14
ATOM	1247	CB	TRP	165	-16.458	31.719	45.867	1.00	26.67
ATOM	1248	CG	TRP	165	-17.337	30.933	45.133	1.00	31.32
ATOM	1249	C	TRP	165	-15.313	29.633	46.656	1.00	26.43
ATOM	1250	O	TRP	165	-15.756	28.611	47.010	1.00	27.16
ATOM	1251	N	ASP	166	-13.337	29.810	46.442	1.00	26.79
ATOM	1252	CA	ASP	166	-13.144	28.648	46.028	1.00	25.64
ATOM	1253	CB	ASP	166	-11.831	29.057	45.467	1.00	27.39
ATOM	1254	CG	ASP	166	-12.936	29.645	44.028	1.00	28.71
ATOM	1255	OD1	ASP	166	-12.913	29.099	43.262	1.00	31.41
ATOM	1256	OD2	ASP	166	-11.497	30.644	43.639	1.00	28.72
ATOM	1257	C	ASP	166	-12.886	27.840	47.531	1.00	25.45
ATOM	1258	O	ASP	166	-12.769	26.615	47.275	1.00	25.73
ATOM	1259	N	ALA	167	-12.750	28.534	48.459	1.00	24.48
ATOM	1260	CA	ALA	167	-12.454	27.893	48.733	1.00	11.78

ATOM	1261	CB	ALA	167	-12.184	28.956	50.846	1.00	23.00
ATOM	1262	C	ALA	167	-13.549	26.991	50.169	1.00	21.48
ATOM	1263	O	ALA	167	-13.787	25.832	50.532	1.00	19.60
ATOM	1264	N	LEU	168	-14.817	27.523	50.160	1.00	21.01
ATOM	1265	CA	LEU	168	-15.983	26.734	50.534	1.00	20.90
ATOM	1266	CB	LEU	168	-17.218	27.621	50.506	1.00	21.15
ATOM	1267	CG	LEU	168	-17.387	28.514	51.811	1.00	19.76
ATOM	1268	CD1	LEU	168	-18.297	29.692	51.511	1.00	21.84
ATOM	1269	CD2	LEU	168	-17.967	27.629	52.978	1.00	20.25
ATOM	1270	C	LEU	168	-16.189	25.630	49.509	1.00	20.35
ATOM	1271	O	LEU	168	-16.610	24.127	49.815	1.00	21.26
ATOM	1272	N	ALA	169	-15.975	25.943	43.248	1.00	21.84
ATOM	1273	CA	ALA	169	-16.068	24.984	43.101	1.00	22.58
ATOM	1274	CB	ALA	169	-15.774	25.638	43.819	1.00	19.71
ATOM	1275	C	ALA	169	-15.198	22.764	43.308	1.00	23.26
ATOM	1276	O	ALA	169	-15.638	21.626	43.102	1.00	23.84
ATOM	1277	N	LEU	170	-13.944	24.014	43.717	1.00	22.11
ATOM	1278	CA	LEU	170	-13.605	23.915	43.974	1.00	21.77
ATOM	1279	CB	LEU	170	-11.585	23.475	43.109	1.00	19.64
ATOM	1280	CG	LEU	170	-10.974	24.127	43.909	1.00	17.90
ATOM	1281	CD1	LEU	170	-11.606	24.806	43.310	1.00	19.18
ATOM	1282	CD2	LEU	170	-12.135	25.943	43.970	1.00	18.13
ATOM	1283	C	LEU	170	-13.447	23.114	49.106	1.00	20.06
ATOM	1284	O	LEU	170	-13.408	20.838	49.105	1.00	20.34
ATOM	1285	N	GLU	171	-13.883	22.801	50.213	1.00	21.68
ATOM	1286	CA	GLU	171	-14.372	22.116	51.441	1.00	21.13
ATOM	1287	CB	GLU	171	-14.766	23.119	52.516	1.00	22.51
ATOM	1288	CG	GLU	171	-15.705	22.530	53.775	1.00	25.91
ATOM	1289	CD	GLU	171	-15.234	22.537	54.834	1.00	27.15
ATOM	1290	OE1	GLU	171	-12.404	24.100	54.477	1.00	27.15
ATOM	1291	OE2	GLU	171	-15.377	23.114	56.016	1.00	27.20
ATOM	1292	C	GLU	171	-15.904	21.109	51.119	1.00	21.24
ATOM	1293	O	GLU	171	-15.508	20.044	51.500	1.00	21.38
ATOM	1294	N	ALA	173	-16.406	21.701	50.374	1.00	21.11
ATOM	1295	CA	ALA	173	-17.077	20.919	50.013	1.00	21.27
ATOM	1296	CB	ALA	173	-18.651	21.807	49.209	1.00	21.63
ATOM	1297	C	ALA	173	-17.277	19.704	49.134	1.00	20.21
ATOM	1298	O	ALA	173	-17.912	18.498	49.117	1.00	19.47
ATOM	1299	N	ALA	173	-18.182	19.868	49.374	1.00	22.43
ATOM	1300	CA	ALA	173	-19.705	18.801	47.401	1.00	19.01
ATOM	1301	CB	ALA	173	-14.707	19.729	46.434	1.00	20.74
ATOM	1302	C	ALA	173	-15.034	17.690	48.236	1.00	21.00
ATOM	1303	O	ALA	173	-14.845	16.975	47.732	1.00	20.88
ATOM	1304	N	GLY	174	-14.651	18.000	49.500	1.00	20.50
ATOM	1305	CA	GLY	174	-14.011	16.998	50.352	1.00	20.44
ATOM	1306	C	GLY	174	-12.604	17.165	50.949	1.00	19.70
ATOM	1307	O	GLY	174	-12.077	16.353	51.659	1.00	19.40
ATOM	1308	N	ALA	175	-12.157	18.354	50.658	1.00	20.43
ATOM	1309	CA	ALA	175	-10.871	18.964	51.218	1.00	19.50
ATOM	1310	CB	ALA	175	-10.464	20.116	50.677	1.00	20.28
ATOM	1311	C	ALA	175	-10.872	19.008	52.717	1.00	21.70
ATOM	1312	O	ALA	175	-11.891	19.610	53.237	1.00	20.48
ATOM	1313	N	GLN	176	-10.037	18.347	53.431	1.00	20.03
ATOM	1314	CA	GLN	176	-10.611	18.310	54.892	1.00	20.58
ATOM	1315	CB	GLN	176	-9.634	18.106	55.392	1.00	20.99
ATOM	1316	CG	GLN	176	-10.532	15.922	54.889	1.00	23.71
ATOM	1317	CD	GLN	176	-10.127	14.187	55.535	1.00	25.55
ATOM	1318	OE1	GLN	176	-12.814	14.391	56.713	1.00	23.79
ATOM	1319	NE2	GLN	176	-9.735	13.764	54.766	1.00	27.44
ATOM	1320	C	GLN	176	-8.036	13.344	55.487	1.00	23.58
ATOM	1321	O	GLN	176	-8.021	14.515	56.705	1.00	13.40
ATOM	1322	N	LEU	177	-8.774	20.037	54.613	1.00	23.80
ATOM	1323	CA	LEU	177	-7.410	21.074	55.601	1.00	21.63
ATOM	1324	CB	LEU	177	-8.663	20.478	55.115	1.00	21.04
ATOM	1325	CG	LEU	177	-5.811	20.041	57.763	1.00	25.54
ATOM	1326	CD1	LEU	177	-4.463	19.321	56.874	1.00	24.79
ATOM	1327	CD2	LEU	177	-5.958	21.272	57.670	1.00	24.83
ATOM	1328	C	LEU	177	-7.308	22.097	52.585	1.00	23.06
ATOM	1329	O	LEU	177	-7.529	21.792	52.799	1.00	20.39
ATOM	1330	N	LEU	177	-6.919	23.117	54.261	1.00	19.35
ATOM	1331	CA	LEU	178	-6.779	24.386	53.285	1.00	20.41
ATOM	1332	CB	LEU	178	-8.063	25.711	53.189	1.00	13.08
ATOM	1333	CG	LEU	178	-9.947	26.457	52.307	1.00	21.83
ATOM	1334	CD1	LEU	178	-7.793	26.656	50.833	1.00	23.51
ATOM	1335	CD2	LEU	178	-9.187	27.327	52.472	1.00	21.62
ATOM	1336	C	LEU	178	-6.830	25.304	53.681	1.00	21.17
ATOM	1337	O	LEU	178	-9.499	25.202	54.809	1.00	21.61

ATOM	1338	N	VAL	179	-4.803	25.670	52.696	1.00	20.87
ATOM	1339	CA	VAL	179	-3.577	26.516	52.893	1.00	21.64
ATOM	1340	CB	VAL	179	-2.366	25.911	52.370	1.00	21.83
ATOM	1341	CG1	VAL	179	-1.280	26.988	52.238	1.00	21.50
ATOM	1342	CG2	VAL	179	-1.976	24.771	51.704	1.00	16.70
ATOM	1343	C	VAL	179	-3.941	27.884	51.182	1.00	23.89
ATOM	1344	O	VAL	179	-4.350	27.871	51.070	1.00	22.84
ATOM	1345	N	LEU	180	-3.718	28.941	51.900	1.00	25.31
ATOM	1346	CA	LEU	180	-3.898	29.741	51.793	1.00	27.62
ATOM	1347	CB	LEU	180	-4.871	31.107	51.213	1.00	29.45
ATOM	1348	CG	LEU	180	-6.349	31.774	51.135	1.00	32.82
ATOM	1349	CD1	LEU	180	-7.138	31.541	51.147	1.00	31.62
ATOM	1350	CD2	LEU	180	-6.861	30.969	51.720	1.00	30.67
ATOM	1351	C	LEU	180	-2.157	31.661	51.598	1.00	27.37
ATOM	1352	O	LEU	180	-1.443	31.344	51.464	1.00	26.56
ATOM	1353	N	GLU	181	-2.952	31.388	51.235	1.00	28.04
ATOM	1354	CA	GLU	181	-0.743	31.097	51.131	1.00	19.09
ATOM	1355	CB	GLU	181	-0.121	31.131	51.173	1.00	19.49
ATOM	1356	CG	GLU	181	1.179	31.737	51.081	1.00	23.41
ATOM	1357	CH	GLU	181	1.419	31.986	49.664	1.00	15.66
ATOM	1358	OH1	GLU	181	1.177	31.771	49.956	1.00	15.41
ATOM	1359	OH2	GLU	181	0.123	31.771	49.714	1.00	19.11
ATOM	1360	C	GLU	181	-0.871	31.477	51.178	1.00	19.13
ATOM	1361	O	GLU	181	-1.463	31.879	49.714	1.00	11.04
ATOM	1362	N	YS	182	-0.184	31.537	51.474	1.00	10.43
ATOM	1363	CA	YS	182	-0.967	29.764	51.195	1.00	11.63
ATOM	1364	CB	YS	182	0.316	36.036	50.111	1.00	21.53
ATOM	1365	SG	YS	182	2.564	33.413	50.588	1.00	16.42
ATOM	1366	C	YS	182	-1.473	36.111	50.603	1.00	11.83
ATOM	1367	O	YS	182	-1.633	36.887	49.632	1.00	10.94
ATOM	1368	N	VAL	183	-2.222	36.190	51.837	1.00	11.93
ATOM	1369	CA	VAL	183	-3.567	37.185	51.614	1.00	14.34
ATOM	1370	CB	VAL	183	-1.636	38.083	51.575	1.00	13.56
ATOM	1371	CG1	VAL	183	-4.345	38.317	51.974	1.00	14.62
ATOM	1372	CG2	VAL	183	-5.336	36.889	51.944	1.00	15.73
ATOM	1373	C	VAL	183	-3.246	38.114	51.778	1.00	16.30
ATOM	1374	O	VAL	183	-3.476	37.871	51.679	1.00	16.35
ATOM	1375	N	PRO	184	-4.176	38.170	51.150	1.00	15.66
ATOM	1376	CA	PRO	184	-5.127	38.884	51.107	1.00	15.39
ATOM	1377	CB	PRO	184	-4.877	40.119	51.614	1.00	14.72
ATOM	1378	CG	PRO	184	-5.781	41.233	51.990	1.00	15.50
ATOM	1379	CD	PRO	184	-6.704	41.344	51.849	1.00	16.16
ATOM	1380	C	PRO	184	-5.148	41.476	51.864	1.00	13.29
ATOM	1381	O	PRO	184	-6.384	38.639	51.638	1.00	13.08
ATOM	1382	N	VAL	185	-4.445	39.784	50.032	1.00	13.66
ATOM	1383	CA	VAL	185	-5.447	39.184	51.161	1.00	13.69
ATOM	1384	CB	VAL	185	-4.417	38.936	51.134	1.00	13.17
ATOM	1385	CG1	VAL	185	-5.309	39.142	51.783	1.00	13.65
ATOM	1386	CG2	VAL	185	-3.415	41.039	51.165	1.00	11.75
ATOM	1387	C	VAL	185	-6.169	39.215	51.178	1.00	13.78
ATOM	1388	O	VAL	185	-7.559	38.166	51.139	1.00	13.51
ATOM	1389	N	SLU	186	-7.875	41.282	56.067	1.00	15.02
ATOM	1390	CA	SLU	186	-9.139	41.137	56.901	1.00	16.33
ATOM	1391	CB	SLU	186	-9.440	41.936	56.417	1.00	17.40
ATOM	1392	CG	SLU	186	-8.658	42.171	56.141	1.00	12.15
ATOM	1393	CD	SLU	186	-7.468	43.180	56.506	1.00	14.18
ATOM	1394	OE1	SLU	186	-6.741	41.840	56.633	1.00	13.77
ATOM	1395	OE2	SLU	186	-7.295	44.012	54.726	1.00	15.83
ATOM	1396	C	SLU	186	-9.712	44.189	56.208	1.00	15.05
ATOM	1397	O	SLU	186	-10.701	46.114	56.659	1.00	15.07
ATOM	1398	N	LEU	187	-9.174	48.886	55.931	1.00	14.36
ATOM	1399	CA	LEU	187	-9.713	47.811	54.188	1.00	13.21
ATOM	1400	CB	LEU	187	-9.073	47.811	52.468	1.00	15.04
ATOM	1401	CG	LEU	187	-9.927	47.132	51.607	1.00	14.74
ATOM	1402	CD1	LEU	187	-9.675	47.137	50.391	1.00	19.53
ATOM	1403	CD2	LEU	187	-11.473	46.136	51.867	1.00	16.68
ATOM	1404	C	LEU	187	-9.513	46.137	54.836	1.00	12.13
ATOM	1405	O	LEU	187	-10.411	45.135	54.839	1.00	10.51
ATOM	1406	N	ALA	188	-8.540	46.134	55.386	1.00	11.07
ATOM	1407	CA	ALA	188	-8.013	45.137	56.288	1.00	11.11
ATOM	1408	CB	ALA	188	-6.976	45.139	56.554	1.00	10.96
ATOM	1409	C	ALA	188	-8.979	44.132	57.182	1.00	10.77
ATOM	1410	O	ALA	188	-9.345	43.133	57.424	1.00	10.09
ATOM	1411	N	LYS	189	-9.396	45.130	57.876	1.00	12.15
ATOM	1412	CA	LYS	189	-10.332	45.135	58.990	1.00	13.17
ATOM	1413	CB	LYS	189	-10.573	47.135	59.653	1.00	15.13
ATOM	1414	CG	LYS	189	-9.321	47.135	60.131	1.00	11.13

ATOM	1415	CD	LYS	189	-9.644	39.151	60.826	1.00	44.52
ATOM	1416	CE	LYS	189	-8.375	39.807	61.361	1.00	46.20
ATOM	1417	NZ	LYS	189	-8.623	41.120	62.025	1.00	49.12
ATOM	1418	C	LYS	189	-11.672	35.201	59.520	1.00	32.13
ATOM	1419	O	LYS	189	-12.228	34.184	59.110	1.00	32.61
ATOM	1420	N	ARG	190	-12.193	35.172	57.477	1.00	32.40
ATOM	1421	CA	ARG	190	-13.178	35.347	56.887	1.00	33.08
ATOM	1422	CB	ARG	190	-13.933	36.172	55.650	1.00	34.06
ATOM	1423	CG	ARG	190	-14.921	37.652	55.906	1.00	35.10
ATOM	1424	CD	ARG	190	-14.906	38.174	54.854	1.00	36.39
ATOM	1425	NE	ARG	190	-14.261	38.346	53.528	1.00	38.64
ATOM	1426	CZ	ARG	190	-14.920	38.343	52.573	1.00	38.77
ATOM	1427	NH1	ARG	190	-16.242	38.362	51.564	1.00	39.74
ATOM	1428	NH2	ARG	190	-14.265	38.315	51.213	1.00	38.23
ATOM	1429	C	ARG	190	-13.480	33.869	56.508	1.00	31.06
ATOM	1430	O	ARG	190	-14.363	33.115	56.913	1.00	31.92
ATOM	1431	N	ILE	191	-12.488	37.466	55.723	1.00	31.60
ATOM	1432	CA	ILE	191	-12.391	37.081	55.283	1.00	31.50
ATOM	1433	CB	ILE	191	-11.197	31.885	54.312	1.00	27.14
ATOM	1434	CG1	ILE	191	-11.145	30.322	53.965	1.00	27.40
ATOM	1435	CG2	ILE	191	-11.315	31.754	53.697	1.00	27.61
ATOM	1436	CD1	ILE	191	-10.127	27.163	50.113	1.00	25.47
ATOM	1437	C	ILE	191	-12.145	31.137	56.440	1.00	29.60
ATOM	1438	O	ILE	191	-12.885	30.884	56.500	1.00	29.78
ATOM	1439	N	THR	192	-11.410	31.309	57.438	1.00	28.46
ATOM	1440	CA	THR	192	-11.190	30.873	58.597	1.00	28.90
ATOM	1441	CB	THR	192	-10.100	21.169	59.514	1.00	28.24
ATOM	1442	CG1	THR	192	-8.870	21.379	58.736	1.00	28.74
ATOM	1443	CG2	THR	192	-8.878	30.380	60.723	1.00	27.20
ATOM	1444	C	THR	192	-12.472	30.178	59.402	1.00	29.98
ATOM	1445	O	THR	192	-12.747	29.778	59.895	1.00	28.03
ATOM	1446	N	GLU	193	-13.117	31.142	59.518	1.00	27.93
ATOM	1447	CA	GLU	193	-14.507	31.351	60.245	1.00	28.82
ATOM	1448	CB	GLU	193	-15.021	32.145	60.686	1.00	29.65
ATOM	1449	CG	GLU	193	-14.325	31.133	61.731	1.00	27.54
ATOM	1450	CD	GLU	193	-14.789	34.312	62.047	1.00	28.68
ATOM	1451	OE1	GLU	193	-14.540	35.816	61.233	1.00	28.51
ATOM	1452	OE2	GLU	193	-15.284	35.332	63.236	1.00	27.21
ATOM	1453	C	GLU	193	-15.567	30.125	59.489	1.00	28.13
ATOM	1454	O	GLU	193	-16.892	29.474	60.023	1.00	27.17
ATOM	1455	N	ALA	194	-18.554	30.447	58.172	1.00	27.00
ATOM	1456	CA	ALA	194	-16.523	30.327	57.278	1.00	27.71
ATOM	1457	CB	ALA	194	-16.446	30.430	55.910	1.00	27.76
ATOM	1458	C	ALA	194	-16.351	29.318	57.140	1.00	26.69
ATOM	1459	O	ALA	194	-17.338	28.981	57.051	1.00	26.13
ATOM	1460	N	LEU	195	-15.106	28.353	57.123	1.00	29.16
ATOM	1461	CA	LEU	195	-14.848	28.328	56.967	1.00	27.62
ATOM	1462	CB	LEU	195	-13.531	28.304	56.173	1.00	28.66
ATOM	1463	CG	LEU	195	-13.422	27.386	54.805	1.00	28.73
ATOM	1464	CD1	LEU	195	-12.328	26.713	54.020	1.00	28.71
ATOM	1465	CD2	LEU	195	-14.725	27.288	54.034	1.00	28.26
ATOM	1466	C	LEU	195	-14.774	26.156	58.279	1.00	26.96
ATOM	1467	O	LEU	195	-14.180	26.658	59.290	1.00	26.31
ATOM	1468	N	ALA	196	-18.263	21.431	58.247	1.00	24.22
ATOM	1469	CA	ALA	196	-18.282	21.046	59.403	1.00	24.92
ATOM	1470	CB	ALA	196	-16.390	23.011	59.375	1.00	25.42
ATOM	1471	C	ALA	196	-13.928	23.351	59.464	1.00	25.53
ATOM	1472	O	ALA	196	-13.461	33.473	60.537	1.00	24.80
ATOM	1473	N	ILE	197	-13.303	33.174	58.399	1.00	25.00
ATOM	1474	CA	ILE	197	-12.003	27.627	56.375	1.00	23.99
ATOM	1475	CB	ILE	197	-11.698	27.911	56.800	1.00	22.74
ATOM	1476	CG1	ILE	197	-12.170	27.401	56.123	1.00	21.58
ATOM	1477	CG2	ILE	197	-11.753	28.150	53.796	1.00	22.43
ATOM	1478	CD1	ILE	197	-11.168	27.816	54.447	1.00	24.79
ATOM	1479	C	ILE	197	-10.910	27.505	58.632	1.00	24.38
ATOM	1480	O	ILE	197	-11.011	27.009	58.391	1.00	24.17
ATOM	1481	N	PRO	198	-9.847	27.051	56.340	1.00	24.33
ATOM	1482	CA	PRO	198	-9.573	27.616	56.681	1.00	23.43
ATOM	1483	CB	PRO	198	-8.763	27.953	56.666	1.00	24.80
ATOM	1484	C	PRO	198	-7.840	27.994	61.482	1.00	24.53
ATOM	1485	CG	PRO	198	-8.104	27.638	56.926	1.00	26.07
ATOM	1486	C	PRO	198	-8.070	24.579	56.489	1.00	21.71
ATOM	1487	O	PRO	198	-7.840	23.965	56.445	1.00	24.75
ATOM	1488	N	VAL	199	-7.765	25.859	56.654	1.00	22.66
ATOM	1489	CA	VAL	199	-7.090	26.628	57.633	1.00	21.26
ATOM	1490	CB	VAL	199	-7.840	27.952	57.347	1.00	21.86
ATOM	1491	C	VAL	199	-7.114	26.153	56.110	1.00	21.66

ATOM	1492	CG2	VAL	199	-9.261	27.651	56.841	1.00	23.56
ATOM	1493	C	VAL	199	-5.677	26.948	58.112	1.00	22.30
ATOM	1494	O	VAL	199	-5.483	27.514	59.131	1.00	21.12
ATOM	1495	N	ILE	200	-4.683	26.568	57.311	1.00	21.02
ATOM	1496	CA	ILE	200	-3.286	26.393	57.632	1.00	20.92
ATOM	1497	CB	ILE	200	-2.435	25.375	57.265	1.00	22.17
ATOM	1498	CG2	ILE	200	-0.856	25.855	57.544	1.00	21.64
ATOM	1499	CG1	ILE	200	-2.435	24.746	58.019	1.00	21.31
ATOM	1500	CD1	ILE	200	-2.232	23.366	57.827	1.00	26.13
ATOM	1501	C	ILE	200	-2.850	27.384	56.821	1.00	21.26
ATOM	1502	O	ILE	200	-2.850	27.384	56.821	1.00	19.72
ATOM	1503	N	GLY	201	-2.844	29.325	57.509	1.00	21.83
ATOM	1504	CA	GLY	201	-1.843	30.199	56.733	1.00	21.11
ATOM	1505	C	GLY	201	-0.842	30.176	56.733	1.00	21.20
ATOM	1506	O	GLY	201	0.850	29.315	57.509	1.00	20.91
ATOM	1507	N	ILE	202	0.853	31.335	55.608	1.00	20.88
ATOM	1508	CA	ILE	202	1.449	31.357	55.434	1.00	23.63
ATOM	1509	CB	ILE	202	2.135	30.374	54.412	1.00	21.55
ATOM	1510	CG2	ILE	202	1.133	30.26	53.235	1.00	23.11
ATOM	1511	CG1	ILE	202	3.431	30.391	53.932	1.00	16.32
ATOM	1512	CD1	ILE	202	4.137	31.25	54.933	1.00	19.60
ATOM	1513	C	ILE	202	3.431	31.354	54.832	1.00	23.62
ATOM	1514	O	ILE	202	1.438	31.321	53.637	1.00	23.24
ATOM	1515	N	GLY	203	1.672	27.360	55.633	1.00	24.85
ATOM	1516	CA	GLY	203	1.675	26.336	55.172	1.00	24.91
ATOM	1517	C	GLY	203	0.167	26.386	55.172	1.00	24.72
ATOM	1518	O	GLY	203	-0.132	26.443	54.373	1.00	26.70
ATOM	1519	N	ALA	204	-0.335	24.361	56.033	1.00	24.39
ATOM	1520	CA	ALA	204	-2.334	25.308	56.133	1.00	25.25
ATOM	1521	CB	ALA	204	-2.339	24.313	55.733	1.00	25.27
ATOM	1522	C	ALA	204	-2.367	25.343	57.333	1.00	25.20
ATOM	1523	O	ALA	204	-3.348	25.301	57.333	1.00	24.25
ATOM	1524	N	GLY	205	-1.345	26.153	58.333	1.00	26.07
ATOM	1525	CA	GLY	205	-1.398	26.393	58.333	1.00	25.17
ATOM	1526	C	GLY	205	-1.352	26.453	60.333	1.00	23.65
ATOM	1527	O	GLY	205	-1.353	24.393	60.333	1.00	24.90
ATOM	1528	N	ASN	206	-2.145	26.351	61.333	1.00	21.53
ATOM	1529	CA	ASN	206	-2.350	24.373	62.333	1.00	21.06
ATOM	1530	CB	ASN	206	-1.359	25.353	63.333	1.00	23.67
ATOM	1531	CG	ASN	206	-0.312	26.323	64.333	1.00	23.21
ATOM	1532	OD1	ASN	206	-2.316	26.341	65.333	1.00	23.75
ATOM	1533	N	ASN	206	-3.393	25.313	64.333	1.00	24.74
ATOM	1534	C	ASN	206	-3.335	24.367	63.333	1.00	23.53
ATOM	1535	O	ASN	206	-4.327	23.788	64.333	1.00	21.69
ATOM	1536	N	VAL	207	-4.320	24.786	62.333	1.00	21.94
ATOM	1537	CA	VAL	207	-6.338	23.396	62.443	1.00	23.84
ATOM	1538	CB	VAL	207	-6.353	25.313	61.663	1.00	26.20
ATOM	1539	CG1	VAL	207	-8.323	25.336	62.333	1.00	25.03
ATOM	1540	CG2	VAL	207	-6.388	26.325	61.981	1.00	27.69
ATOM	1541	C	VAL	207	-6.353	31.391	61.963	1.00	24.32
ATOM	1542	O	VAL	207	-7.363	22.600	62.103	1.00	23.30
ATOM	1543	N	THR	208	-5.313	23.431	61.197	1.00	23.62
ATOM	1544	CA	THR	208	-5.379	21.086	60.811	1.00	23.51
ATOM	1545	CB	THR	208	-4.340	20.708	59.643	1.00	23.12
ATOM	1546	CG1	THR	208	-3.331	20.927	60.108	1.00	21.10
ATOM	1547	CG2	THR	208	-5.396	19.987	59.467	1.00	23.13
ATOM	1548	C	THR	208	-5.363	20.053	61.919	1.00	24.26
ATOM	1549	O	THR	208	-5.325	20.131	62.935	1.00	24.25
ATOM	1550	N	ASP	209	-6.384	28.861	61.657	1.00	22.58
ATOM	1551	CA	ASP	209	-7.384	27.388	61.641	1.00	22.69
ATOM	1552	CB	ASP	209	-7.091	26.665	62.194	1.00	22.67
ATOM	1553	CG	ASP	209	-8.301	27.146	61.661	1.00	25.07
ATOM	1554	OD1	ASP	209	-8.310	27.631	62.131	1.00	23.71
ATOM	1555	OD2	ASP	209	-8.380	27.056	62.136	1.00	24.21
ATOM	1556	C	ASP	209	-4.734	27.244	62.139	1.00	21.49
ATOM	1557	O	ASP	209	-4.433	26.657	63.663	1.00	21.31
ATOM	1558	N	GLY	210	-3.928	27.444	61.139	1.00	21.74
ATOM	1559	CA	GLY	210	-3.569	26.356	61.351	1.00	20.36
ATOM	1560	C	GLY	210	-1.623	27.775	61.133	1.00	20.68
ATOM	1561	O	GLY	210	-1.049	28.651	62.133	1.00	21.05
ATOM	1562	N	GLN	211	-0.342	27.475	61.133	1.00	20.83
ATOM	1563	CA	GLN	211	-0.693	28.127	61.133	1.00	21.52
ATOM	1564	CB	GLN	211	1.453	29.119	61.133	1.00	22.97
ATOM	1565	CG	GLN	211	0.626	29.333	61.133	1.00	19.78
ATOM	1566	CD	GLN	211	0.133	31.329	62.103	1.00	21.63
ATOM	1567	OE1	GLN	211	0.895	31.663	62.103	1.00	23.63
ATOM	1568	NE2	GLN	211	-1.133	31.668	61.093	1.00	21.71

ATOM	1569	C	GLN	211	1.781	27.250	59.761	1.00	21.50
ATOM	1570	O	GLN	211	1.886	26.117	60.199	1.00	20.81
ATOM	1571	N	ILE	212	2.344	27.724	58.700	1.00	22.48
ATOM	1572	CA	ILE	212	3.331	26.921	58.023	1.00	26.35
ATOM	1573	CB	ILE	212	2.755	26.171	56.799	1.00	28.17
ATOM	1574	CG	ILE	212	2.434	27.129	55.660	1.00	29.17
ATOM	1575	CG1	ILE	212	3.725	25.079	56.744	1.00	29.11
ATOM	1576	CG1	ILE	212	3.031	24.019	55.457	1.00	31.17
ATOM	1577	C	ILE	212	4.444	27.829	57.588	1.00	28.11
ATOM	1578	O	ILE	212	4.237	29.011	57.319	1.00	29.09
ATOM	1579	N	LEU	213	5.776	27.28	57.356	1.00	29.45
ATOM	1580	CA	LEU	213	6.870	28.06	57.135	1.00	31.99
ATOM	1581	CB	LEU	213	7.432	29.880	58.360	1.00	33.40
ATOM	1582	CG	LEU	213	7.351	30.419	58.241	1.00	33.83
ATOM	1583	CH1	LEU	213	8.119	30.971	59.455	1.00	32.93
ATOM	1584	CH2	LEU	213	7.941	30.951	58.916	1.00	31.79
ATOM	1585	C	LEU	213	7.970	32.159	56.601	1.00	32.15
ATOM	1586	O	LEU	213	8.143	26.03	57.076	1.00	31.38
ATOM	1587	N	VAL	214	6.639	27.619	55.607	1.00	31.01
ATOM	1588	CA	VAL	214	9.838	26.91	55.025	1.00	30.31
ATOM	1589	CB	VAL	214	10.129	27.519	53.685	1.00	31.87
ATOM	1590	CH1	VAL	214	11.117	26.779	53.174	1.00	33.34
ATOM	1591	CH2	VAL	214	9.136	27.519	52.619	1.00	37.39
ATOM	1592	C	VAL	214	10.903	26.979	56.060	1.00	28.15
ATOM	1593	O	VAL	214	11.440	28.059	56.362	1.00	28.96
ATOM	1594	N	MET	215	11.268	25.819	56.614	1.00	35.80
ATOM	1595	CA	MET	215	12.239	25.129	57.652	1.00	24.04
ATOM	1596	CB	MET	215	12.617	24.159	57.947	1.00	21.67
ATOM	1597	CG	MET	215	13.046	25.449	56.708	1.00	21.44
ATOM	1598	SD	MET	215	14.311	25.129	57.054	1.00	19.28
ATOM	1599	C	MET	215	15.734	25.149	56.942	1.00	20.16
ATOM	1600	O	MET	215	17.575	26.469	57.213	1.00	21.27
ATOM	1601	C	MET	215	14.253	27.019	58.314	1.00	24.16
ATOM	1602	N	HIS	216	13.957	26.489	55.966	1.00	31.61
ATOM	1603	CA	HIS	216	15.123	27.169	55.510	1.00	25.02
ATOM	1604	CB	HIS	216	15.343	26.890	54.015	1.00	31.17
ATOM	1605	CG	HIS	216	15.707	25.469	53.711	1.00	21.37
ATOM	1606	CH1	HIS	216	14.239	24.169	53.921	1.00	21.81
ATOM	1607	CH2	HIS	216	17.314	25.839	53.916	1.00	24.46
ATOM	1608	CH3	HIS	216	17.635	23.739	53.479	1.00	23.43
ATOM	1609	NH2	HIS	216	15.788	23.199	53.455	1.00	26.42
ATOM	1610	C	HIS	216	15.132	28.019	55.812	1.00	26.05
ATOM	1611	O	HIS	216	16.195	29.279	55.872	1.00	25.85
ATOM	1612	N	ASP	217	13.949	29.129	56.000	1.00	27.68
ATOM	1613	CA	ASP	217	13.848	30.669	56.331	1.00	31.25
ATOM	1614	CB	ASP	217	12.576	31.339	55.743	1.00	33.16
ATOM	1615	CG	ASP	217	12.553	31.499	54.200	1.00	35.27
ATOM	1616	CO1	ASP	217	13.623	32.019	53.700	1.00	36.37
ATOM	1617	CO2	ASP	217	12.735	30.919	53.337	1.00	33.89
ATOM	1618	C	ASP	217	13.827	30.839	57.815	1.00	31.92
ATOM	1619	O	ASP	217	14.353	31.899	58.344	1.00	32.35
ATOM	1620	N	ALA	218	13.225	29.339	58.534	1.00	10.86
ATOM	1621	CA	ALA	218	13.121	29.339	59.931	1.00	30.59
ATOM	1622	CB	ALA	218	12.208	28.169	60.431	1.00	30.22
ATOM	1623	C	ALA	218	14.471	29.169	60.639	1.00	31.33
ATOM	1624	O	ALA	218	14.393	30.169	62.831	1.00	31.23
ATOM	1625	N	PHE	219	15.182	29.269	59.932	1.00	30.28
ATOM	1626	CA	PHE	219	16.494	29.119	60.539	1.00	29.63
ATOM	1627	CB	PHE	219	17.202	27.419	60.598	1.00	23.92
ATOM	1628	CG	PHE	219	16.148	26.719	61.177	1.00	30.71
ATOM	1629	CH1	PHE	219	16.529	27.019	62.135	1.00	31.14
ATOM	1630	CH2	PHE	219	16.781	25.519	60.534	1.00	31.43
ATOM	1631	CH3	PHE	219	14.562	26.219	62.135	1.00	31.73
ATOM	1632	CO1	PHE	219	14.811	24.714	61.087	1.00	33.41
ATOM	1633	CO2	PHE	219	14.702	25.611	62.275	1.00	31.77
ATOM	1634	C	PHE	219	17.381	29.613	59.839	1.00	29.17
ATOM	1635	O	PHE	219	17.019	29.611	59.315	1.00	29.21
ATOM	1636	N	GLY	220	17.458	1.014	59.137	1.00	24.74
ATOM	1637	CA	GLY	220	16.190	1.839	58.550	1.00	29.75
ATOM	1638	C	GLY	220	16.157	1.185	57.611	1.00	30.84
ATOM	1639	O	GLY	220	23.507	1.001	57.485	1.00	33.29
ATOM	1640	N	ILE	221	18.990	30.119	57.273	1.00	30.94
ATOM	1641	CA	ILE	221	19.754	29.389	57.053	1.00	33.23
ATOM	1642	CB	ILE	221	19.170	27.919	55.896	1.00	28.54
ATOM	1643	CG	ILE	221	20.167	27.169	54.708	1.00	26.85
ATOM	1644	CH1	ILE	221	19.088	27.269	57.063	1.00	27.41
ATOM	1645	CH2	ILE	221	19.654	25.279	57.176	1.00	26.23

ATOM	1646	C	ILE	221	19.759	30.960	54.691	1.00	31.62
ATOM	1647	O	ILE	221	20.799	30.178	54.041	1.00	30.47
ATOM	1648	N	THR	222	18.590	30.528	54.275	1.00	33.36
ATOM	1649	CA	THR	222	18.453	31.193	52.989	1.00	37.21
ATOM	1650	CB	THR	222	16.951	31.341	52.555	1.00	36.35
ATOM	1651	OG1	THR	222	16.249	32.088	52.448	1.00	39.16
ATOM	1652	OG2	THR	222	16.335	29.051	52.594	1.00	35.82
ATOM	1653	C	THR	222	18.935	32.816	51.024	1.00	39.86
ATOM	1654	O	THR	222	18.770	33.345	53.997	1.00	39.16
ATOM	1655	N	GLY	223	19.113	32.490	51.976	1.00	43.16
ATOM	1656	CA	GLY	223	20.132	34.110	51.848	1.00	47.51
ATOM	1657	C	GLY	223	20.126	33.168	53.103	1.00	50.12
ATOM	1658	O	GLY	223	20.957	34.786	54.116	1.00	51.53
ATOM	1659	N	GLY	224	19.420	36.327	53.051	1.00	51.89
ATOM	1660	CA	GLY	224	19.863	37.102	54.207	1.00	54.05
ATOM	1661	C	GLY	224	18.124	37.331	54.421	1.00	56.18
ATOM	1662	O	GLY	224	17.767	37.824	55.526	1.00	56.52
ATOM	1663	N	HIS	225	17.802	38.385	52.371	1.00	57.80
ATOM	1664	CA	HIS	225	16.110	39.165	52.453	1.00	58.81
ATOM	1665	CB	HIS	225	16.117	40.359	52.470	1.00	61.53
ATOM	1666	CG	HIS	225	16.419	41.315	52.621	1.00	63.73
ATOM	1667	CD	HIS	225	16.336	42.316	52.144	1.00	66.25
ATOM	1668	ND1	HIS	225	15.118	43.351	54.002	1.00	68.20
ATOM	1669	HE1	HIS	225	17.115	44.387	54.026	1.00	65.72
ATOM	1670	NE2	HIS	225	16.990	45.356	52.993	1.00	66.01
ATOM	1671	C	HIS	225	15.140	46.157	52.118	1.00	57.89
ATOM	1672	O	HIS	225	15.137	46.134	52.077	1.00	58.33
ATOM	1673	N	ILE	226	14.847	47.497	54.201	1.00	56.01
ATOM	1674	CA	ILE	226	15.325	48.113	54.080	1.00	55.77
ATOM	1675	CB	ILE	226	14.851	49.340	53.336	1.00	55.10
ATOM	1676	CG2	ILE	226	14.889	49.865	53.601	1.00	54.36
ATOM	1677	CG1	ILE	226	15.100	50.608	56.558	1.00	54.31
ATOM	1678	CD1	ILE	226	15.109	51.342	52.851	1.00	54.53
ATOM	1679	C	ILE	226	15.141	52.159	53.821	1.00	55.36
ATOM	1680	O	ILE	226	17.199	52.116	54.001	1.00	54.01
ATOM	1681	N	PRO	227	11.473	54.674	52.977	1.00	50.79
ATOM	1682	CD	PRO	227	11.136	55.123	52.167	1.00	49.40
ATOM	1683	CA	PRO	227	13.136	55.161	53.137	1.00	48.83
ATOM	1684	CB	PRO	227	9.819	56.342	52.163	1.00	46.83
ATOM	1685	CG	PRO	227	9.847	57.111	53.253	1.00	49.81
ATOM	1686	C	PRO	227	9.515	57.345	54.324	1.00	46.59
ATOM	1687	O	PRO	227	9.860	57.826	55.468	1.00	46.32
ATOM	1688	N	LYS	228	8.129	58.101	54.103	1.00	44.27
ATOM	1689	CA	LYS	228	8.222	58.850	55.191	1.00	41.93
ATOM	1690	CB	LYS	228	7.160	60.992	54.643	1.00	43.42
ATOM	1691	CG	LYS	228	8.119	62.114	54.016	1.00	47.18
ATOM	1692	CD	LYS	228	8.110	61.736	52.673	1.00	49.90
ATOM	1693	CE	LYS	228	9.198	62.906	52.043	1.00	51.00
ATOM	1694	NZ	LYS	228	10.607	63.601	50.673	1.00	51.75
ATOM	1695	C	LYS	228	7.167	63.987	56.111	1.00	39.05
ATOM	1696	O	LYS	228	7.312	64.208	57.297	1.00	39.22
ATOM	1697	N	PRO	229	6.337	67.917	55.561	1.00	35.73
ATOM	1698	CA	PRO	229	5.855	67.052	56.357	1.00	31.21
ATOM	1699	CB	PRO	229	4.183	66.397	55.453	1.00	31.42
ATOM	1700	CG	PRO	229	5.160	65.343	54.361	1.00	31.78
ATOM	1701	CD1	PRO	229	5.008	64.253	54.623	1.00	32.94
ATOM	1702	CD2	PRO	229	5.154	65.030	53.061	1.00	31.15
ATOM	1703	CE1	PRO	229	6.142	64.357	53.605	1.00	33.72
ATOM	1704	CE2	PRO	229	6.366	65.248	52.931	1.00	33.39
ATOM	1705	CZ	PRO	229	6.129	63.958	52.309	1.00	33.05
ATOM	1706	C	PRO	229	6.107	65.985	57.116	1.00	23.23
ATOM	1707	PH	PRO	229	6.128	65.261	57.921	1.00	28.17
ATOM	1708	N	ALA	230	8.123	65.591	56.876	1.00	26.34
ATOM	1709	CA	ALA	230	8.368	64.907	57.544	1.00	24.57
ATOM	1710	CP	ALA	230	9.133	64.304	56.552	1.00	26.85
ATOM	1711	C	ALA	230	9.095	65.484	58.734	1.00	26.31
ATOM	1712	O	ALA	230	8.143	66.700	58.865	1.00	25.21
ATOM	1713	N	LYS	231	10.090	64.573	57.630	1.00	24.27
ATOM	1714	CA	LYS	231	10.338	64.900	56.786	1.00	24.53
ATOM	1715	CP	LYS	231	9.198	65.143	57.183	1.00	25.43
ATOM	1716	CG	LYS	231	10.809	65.473	57.235	1.00	25.37
ATOM	1717	CH	LYS	231	9.334	65.516	54.455	1.00	28.18
ATOM	1718	CE	LYS	231	10.332	65.784	57.180	1.00	27.43
ATOM	1719	NZ	LYS	231	9.434	65.916	57.123	1.00	29.23
ATOM	1720	C	LYS	231	11.419	63.337	61.116	1.00	23.25
ATOM	1721	O	LYS	231	11.674	63.720	61.007	1.00	25.31
ATOM	1722	N	ASN	232	10.111	64.437	60.413	1.00	22.11

ATOM	1723	CA	ASN	232	14.238	32.617	61.775	1.00	22.68
ATOM	1724	CP	ASN	232	15.550	34.325	61.427	1.00	22.74
ATOM	1725	CG	ASN	232	16.770	32.476	61.711	1.00	22.28
ATOM	1726	OD1	ASN	232	16.716	32.519	62.477	1.00	22.05
ATOM	1727	ND1	ASN	232	17.895	27.839	61.107	1.00	21.01
ATOM	1728	C	ASN	232	14.155	32.367	63.283	1.00	22.47
ATOM	1729	O	ASN	232	14.442	34.256	63.083	1.00	22.40
ATOM	1730	N	PHE	233	13.754	32.113	63.676	1.00	20.06
ATOM	1731	CA	PHE	233	12.646	31.816	63.083	1.00	21.57
ATOM	1732	CB	PHE	233	12.622	30.692	63.284	1.00	20.88
ATOM	1733	CG	PHE	233	11.192	31.127	63.103	1.00	20.63
ATOM	1734	CD1	PHE	233	10.614	31.161	63.843	1.00	21.32
ATOM	1735	CD2	PHE	233	10.413	21.449	63.131	1.00	20.65
ATOM	1736	CE1	PHE	233	9.289	21.566	63.673	1.00	21.66
ATOM	1737	CE2	PHE	233	9.102	21.903	63.057	1.00	21.23
ATOM	1738	CZ	PHE	233	8.736	21.940	63.78	1.00	19.83
ATOM	1739	C	PHE	233	14.972	21.401	63.493	1.00	21.41
ATOM	1740	O	PHE	233	15.110	21.396	63.921	1.00	22.96
ATOM	1741	N	LEU	234	13.903	21.633	64.853	1.00	22.62
ATOM	1742	CA	LEU	234	12.142	20.821	63.773	1.00	24.52
ATOM	1743	CB	LEU	234	12.003	19.893	63.113	1.00	23.62
ATOM	1744	CG	LEU	234	12.443	19.177	64.113	1.00	22.38
ATOM	1745	CD1	LEU	234	12.717	18.339	63.113	1.00	21.34
ATOM	1746	CD2	LEU	234	20.112	18.821	63.173	1.00	23.26
ATOM	1747	C	LEU	234	12.642	21.839	63.773	1.00	23.65
ATOM	1748	O	LEU	234	18.712	21.801	63.773	1.00	23.49
ATOM	1749	N	ALA	235	12.987	17.921	64.993	1.00	36.32
ATOM	1750	CA	ALA	235	12.931	24.133	63.353	1.00	36.40
ATOM	1751	CB	ALA	235	12.124	23.233	64.133	1.00	37.16
ATOM	1752	C	ALA	235	12.417	24.373	63.773	1.00	40.32
ATOM	1753	O	ALA	235	12.387	24.323	63.413	1.00	40.66
ATOM	1754	N	GLU	236	12.123	24.301	62.713	1.00	43.68
ATOM	1755	CA	GLU	236	12.722	24.681	62.493	1.00	47.39
ATOM	1756	CB	GLU	236	12.187	24.113	62.773	1.00	43.66
ATOM	1757	CG	GLU	236	11.712	24.363	62.773	1.00	51.12
ATOM	1758	CH	GLU	236	12.177	23.473	62.543	1.00	52.60
ATOM	1759	OH1	GLU	236	12.173	23.113	62.213	1.00	53.31
ATOM	1760	OH2	GLU	236	12.773	23.993	62.773	1.00	53.10
ATOM	1761	C	GLU	236	12.673	24.113	62.773	1.00	49.66
ATOM	1762	O	GLU	236	12.773	24.173	72.133	1.00	49.42
ATOM	1763	N	THR	237	12.693	23.113	63.373	1.00	42.40
ATOM	1764	CA	THR	237	12.477	21.923	72.123	1.00	49.62
ATOM	1765	CB	THR	237	12.668	20.773	72.123	1.00	50.19
ATOM	1766	OG1	THR	237	12.164	22.963	72.123	1.00	52.65
ATOM	1767	CG2	THR	237	12.147	22.894	63.453	1.00	51.76
ATOM	1768	C	THR	237	12.772	21.553	63.643	1.00	49.44
ATOM	1769	O	THR	237	22.839	22.273	63.753	1.00	49.89
ATOM	1770	N	GLY	238	22.224	22.323	63.253	1.00	46.44
ATOM	1771	CA	GLY	238	22.421	22.813	63.213	1.00	42.67
ATOM	1772	C	GLY	238	22.779	24.333	63.053	1.00	41.05
ATOM	1773	O	GLY	238	22.345	23.643	63.133	1.00	41.30
ATOM	1774	N	ASP	239	22.124	22.713	63.194	1.00	37.94
ATOM	1775	CA	ASP	239	12.609	22.313	63.053	1.00	34.93
ATOM	1776	CP	ASP	239	12.448	22.773	72.143	1.00	36.61
ATOM	1777	CG	ASP	239	12.115	24.223	72.133	1.00	41.64
ATOM	1778	OD1	ASP	239	12.127	23.933	72.170	1.00	42.16
ATOM	1779	OD2	ASP	239	22.412	23.433	72.158	1.00	45.62
ATOM	1780	C	ASP	239	12.113	26.013	63.162	1.00	31.17
ATOM	1781	O	ASP	239	12.662	24.633	63.370	1.00	28.67
ATOM	1782	N	ILE	240	12.776	22.113	62.164	1.00	25.83
ATOM	1783	CA	ILE	240	12.834	21.823	62.252	1.00	22.73
ATOM	1784	CB	ILE	240	12.775	23.523	63.132	1.00	21.79
ATOM	1785	CG1	ILE	240	12.109	23.513	61.256	1.00	12.79
ATOM	1786	CG2	ILE	240	12.346	21.523	61.245	1.00	21.91
ATOM	1787	CD1	ILE	240	22.942	23.633	63.267	1.00	21.65
ATOM	1788	C	ILE	240	12.779	21.313	63.075	1.00	12.37
ATOM	1789	O	ILE	240	12.145	21.773	63.719	1.00	21.10
ATOM	1790	N	ARG	241	12.408	23.323	62.870	1.00	19.73
ATOM	1791	CA	ARG	241	12.637	21.723	63.592	1.00	12.41
ATOM	1792	CB	ARG	241	12.167	21.623	63.373	1.00	12.37
ATOM	1793	CG	ARG	241	12.541	22.333	63.619	1.00	12.39
ATOM	1794	CD	ARG	241	12.766	21.373	63.474	1.00	21.37
ATOM	1795	NE	ARG	241	12.481	12.037	63.692	1.00	22.99
ATOM	1796	C	ARG	241	12.431	12.973	62.675	1.00	24.19
ATOM	1797	NH1	ARG	241	12.063	12.013	62.492	1.00	25.28
ATOM	1798	NH2	ARG	241	12.444	12.873	62.113	1.00	24.33
ATOM	1799	C	ARG	241	12.994	23.623	63.413	1.00	12.33

ATOM	1800	O	ARG	241	13.727	23.803	69.520	1.00	19.66
ATOM	1801	N	ALA	242	15.730	24.707	70.034	1.00	19.52
ATOM	1802	CA	ALA	242	15.173	25.771	70.632	1.00	19.63
ATOM	1803	CB	ALA	242	16.227	26.580	71.524	1.00	20.26
ATOM	1804	C	ALA	242	14.312	26.662	69.896	1.00	19.55
ATOM	1805	O	ALA	242	13.213	27.123	70.267	1.00	21.40
ATOM	1806	N	ALA	243	14.804	26.854	68.676	1.00	18.14
ATOM	1807	CA	ALA	243	14.074	27.700	67.767	1.00	18.54
ATOM	1808	CB	ALA	243	14.918	27.544	66.457	1.00	18.09
ATOM	1809	CL	ALA	243	12.748	27.031	67.326	1.00	19.51
ATOM	1810	O	ALA	243	11.711	27.701	67.180	1.00	20.19
ATOM	1811	N	VAL	244	12.769	25.710	67.117	1.00	21.10
ATOM	1812	CA	VAL	244	11.514	24.969	66.618	1.00	19.17
ATOM	1813	CB	VAL	244	11.842	23.453	66.652	1.00	18.81
ATOM	1814	CG1	VAL	244	10.516	22.668	66.538	1.00	18.23
ATOM	1815	CG2	VAL	244	12.611	23.245	65.361	1.00	17.47
ATOM	1816	C	VAL	244	10.511	25.146	67.927	1.00	20.06
ATOM	1817	O	VAL	244	9.336	25.348	67.660	1.00	18.36
ATOM	1818	N	LEU	245	10.913	25.073	69.174	1.00	21.66
ATOM	1819	CA	LEU	245	10.063	25.127	70.197	1.00	21.31
ATOM	1820	CB	LEU	245	10.780	24.507	71.115	1.00	21.31
ATOM	1821	CG	LEU	245	11.118	23.427	70.164	1.00	21.58
ATOM	1822	CI	LEU	245	11.472	23.053	73.169	1.00	22.94
ATOM	1823	NE	LEU	245	12.697	22.674	73.608	1.00	23.81
ATOM	1824	CY	LEU	245	13.910	23.291	73.775	1.00	23.74
ATOM	1825	NH1	LEU	245	14.116	22.774	72.847	1.00	30.29
ATOM	1826	NH2	LEU	245	14.960	23.921	73.896	1.00	18.20
ATOM	1827	C	LEU	245	9.415	26.617	70.052	1.00	21.12
ATOM	1828	O	LEU	245	8.246	26.144	70.665	1.00	21.64
ATOM	1829	N	LYS	246	10.211	27.653	70.695	1.00	22.00
ATOM	1830	CA	LYS	246	9.740	29.024	70.122	1.00	23.84
ATOM	1831	CB	LYS	246	10.877	30.911	69.719	1.00	23.16
ATOM	1832	CG	LYS	246	10.464	31.464	70.676	1.00	18.63
ATOM	1833	CH	LYS	246	11.632	32.199	70.656	1.00	18.48
ATOM	1834	NE1	LYS	246	12.692	32.227	70.822	1.00	23.13
ATOM	1835	NE2	LYS	246	11.869	33.404	69.185	1.00	24.94
ATOM	1836	C	LYS	246	8.633	28.220	69.036	1.00	24.20
ATOM	1837	O	LYS	246	7.814	29.889	69.245	1.00	18.33
ATOM	1838	C	TYR	247	6.132	28.651	67.664	1.00	25.16
ATOM	1839	CA	TYR	247	7.919	26.751	66.761	1.00	21.66
ATOM	1840	CB	TYR	247	8.571	28.037	65.828	1.00	18.75
ATOM	1841	CG	TYR	247	7.539	27.795	64.119	1.00	20.83
ATOM	1842	CD1	TYR	247	6.815	26.837	63.149	1.00	19.49
ATOM	1843	CE1	TYR	247	5.832	28.612	62.485	1.00	21.16
ATOM	1844	CD2	TYR	247	7.328	26.517	63.431	1.00	21.25
ATOM	1845	CE2	TYR	247	6.460	26.281	62.376	1.00	18.03
ATOM	1846	CH	TYR	247	5.139	27.327	62.378	1.00	19.79
ATOM	1847	OH	TYR	247	4.832	27.085	61.328	1.00	20.47
ATOM	1848	C	TYR	247	6.673	28.125	67.139	1.00	18.68
ATOM	1849	O	TYR	247	5.639	28.723	67.126	1.00	21.42
ATOM	1850	N	TRP	248	6.716	26.929	67.732	1.00	20.26
ATOM	1851	CA	TRP	248	5.556	26.219	66.238	1.00	21.53
ATOM	1852	CB	TRP	248	5.751	24.871	68.834	1.00	21.82
ATOM	1853	CG	TRP	248	6.436	23.815	67.882	1.00	21.90
ATOM	1854	SD	TRP	248	7.248	22.411	68.688	1.00	26.67
ATOM	1855	CE	TRP	248	5.838	21.535	68.370	1.00	24.87
ATOM	1856	C	TRP	248	4.750	22.949	69.293	1.00	22.86
ATOM	1857	O	TRP	248	3.554	27.191	69.731	1.00	21.83
ATOM	1858	N	GLA	249	5.518	27.666	70.247	1.00	21.40
ATOM	1859	CA	GLA	249	4.838	28.405	71.199	1.00	21.20
ATOM	1860	CB	GLA	249	5.926	29.738	70.369	1.00	21.72
ATOM	1861	C	GLA	249	4.150	29.487	70.177	1.00	21.43
ATOM	1862	O	GLA	249	3.337	29.457	71.103	1.00	22.71
ATOM	1863	N	GLN	250	4.969	29.448	69.970	1.00	22.09
ATOM	1864	CA	GLN	250	4.469	31.797	69.433	1.00	23.77
ATOM	1865	CB	GLN	250	5.549	32.314	69.647	1.00	22.94
ATOM	1866	CG	GLN	250	6.813	32.633	69.444	1.00	24.15
ATOM	1867	CH	GLN	250	7.839	32.866	69.923	1.00	24.35
ATOM	1868	OE1	GLN	250	7.949	34.149	69.713	1.00	23.60
ATOM	1869	O	GLN	250	6.381	33.343	69.729	1.00	25.19
ATOM	1870	C	GLN	250	7.241	31.938	68.558	1.00	23.24
ATOM	1871	O	GLN	250	5.109	31.147	68.449	1.00	24.11
ATOM	1872	N	VAL	251	5.063	31.137	67.535	1.00	23.87
ATOM	1873	CA	VAL	251	11.417	30.115	67.094	1.00	24.81
ATOM	1874	CB	VAL	251	11.114	28.891	66.199	1.00	24.11
ATOM	1875	CG	VAL	251	11.877	28.171	65.141	1.00	23.19
ATOM	1876	C	VAL	251	11.117	28.171	65.141	1.00	23.83

ATOM	1877	C	VAL	251	-0.692	23.927	67.970	1.00	25.72
ATOM	1878	O	VAL	251	-0.855	23.524	67.731	1.00	26.34
ATOM	1879	N	GLU	252	-0.475	29.085	68.990	1.00	25.88
ATOM	1880	CA	GLU	252	-0.191	28.804	69.885	1.00	28.87
ATOM	1881	CB	GLU	252	-0.866	28.687	70.842	1.00	31.83
ATOM	1882	CG	GLU	252	-1.176	28.368	71.762	1.00	34.48
ATOM	1883	CD	GLU	252	-0.739	26.078	71.637	1.00	34.81
ATOM	1884	OE1	GLU	252	-1.555	28.730	71.511	1.00	41.72
ATOM	1885	OE2	GLU	252	-0.443	28.486	72.438	1.00	44.27
ATOM	1886	C	GLU	252	-0.712	29.036	70.686	1.00	28.30
ATOM	1887	O	GLU	252	-1.471	30.142	71.352	1.00	29.12
ATOM	1888	N	SEP	253	-0.233	30.330	70.922	1.00	29.46
ATOM	1889	CA	SEP	253	-0.638	32.138	71.681	1.00	32.10
ATOM	1890	CB	SEP	253	-1.104	32.572	72.450	1.00	34.17
ATOM	1891	CG	SEP	253	-1.469	31.671	71.519	1.00	39.52
ATOM	1892	C	SEP	253	-0.447	33.332	70.794	1.00	31.92
ATOM	1893	O	SEP	253	-1.701	34.248	71.283	1.00	34.17
ATOM	1894	N	GLY	254	-0.334	34.118	69.492	1.00	30.27
ATOM	1895	CA	GLY	254	-0.666	34.237	68.571	1.00	27.52
ATOM	1896	C	GLY	254	-0.332	34.319	68.216	1.00	28.64
ATOM	1897	O	GLY	254	-0.332	36.118	67.341	1.00	27.43
ATOM	1898	N	VAL	255	-1.174	34.123	67.313	1.00	27.12
ATOM	1899	CA	VAL	255	-2.062	34.886	68.381	1.00	34.43
ATOM	1900	CB	VAL	255	-2.196	34.637	69.336	1.00	27.95
ATOM	1901	CG1	VAL	255	-5.138	36.535	69.601	1.00	28.85
ATOM	1902	CG2	VAL	255	-3.136	36.732	71.264	1.00	27.69
ATOM	1903	C	VAL	255	-3.139	38.996	67.453	1.00	23.67
ATOM	1904	O	VAL	255	-1.907	39.861	66.902	1.00	27.95
ATOM	1905	N	TYR	256	-1.131	41.736	66.831	1.00	28.22
ATOM	1906	CA	TYR	256	-2.187	41.614	68.441	1.00	30.81
ATOM	1907	CB	TYR	256	-4.156	43.739	68.356	1.00	22.92
ATOM	1908	CG	TYR	256	-5.132	43.832	63.935	1.00	23.38
ATOM	1909	CD1	TYR	256	-6.991	44.814	63.320	1.00	22.41
ATOM	1910	CE1	TYR	256	-6.136	43.334	61.878	1.00	23.46
ATOM	1911	CE2	TYR	256	-5.135	42.433	63.171	1.00	23.24
ATOM	1912	CE3	TYR	256	-5.139	42.348	61.188	1.00	22.31
ATOM	1913	CH	TYR	256	-6.138	43.413	61.181	1.00	25.45
ATOM	1914	OH	TYR	256	-6.148	43.339	59.194	1.00	23.06
ATOM	1915	C	TYR	256	-2.185	43.266	64.645	1.00	22.39
ATOM	1916	O	TYR	256	-1.800	42.945	65.107	1.00	20.80
ATOM	1917	N	PRO	257	-2.138	44.465	63.441	1.00	23.79
ATOM	1918	CA	PRO	257	-1.133	43.861	62.453	1.00	27.59
ATOM	1919	CB	PRO	257	-2.326	43.611	61.864	1.00	28.56
ATOM	1920	CG	PRO	257	-2.415	43.542	61.379	1.00	28.50
ATOM	1921	CH	PRO	257	-1.128	44.947	61.427	1.00	27.66
ATOM	1922	C	PRO	257	-2.412	46.934	63.513	1.00	28.91
ATOM	1923	O	PRO	257	-1.382	47.074	64.027	1.00	28.97
ATOM	1924	N	GLY	258	-2.412	47.832	63.491	1.00	27.96
ATOM	1925	CA	GLY	258	-3.141	49.132	61.692	1.00	31.15
ATOM	1926	C	GLY	258	-2.550	49.108	63.352	1.00	31.98
ATOM	1927	O	GLY	258	-2.454	49.790	61.475	1.00	31.32
ATOM	1928	N	GLU	259	-2.151	41.331	63.176	1.00	31.38
ATOM	1929	CA	GLU	259	-1.571	41.239	62.554	1.00	31.72
ATOM	1930	CB	GLU	259	-1.118	43.513	63.404	1.00	31.56
ATOM	1931	CG	GLU	259	-0.183	44.375	62.319	1.00	34.03
ATOM	1932	CD	GLU	259	-1.196	43.635	62.396	1.00	43.11
ATOM	1933	OE1	GLU	259	-2.009	44.737	61.334	1.00	44.27
ATOM	1934	OE2	GLU	259	-1.431	44.630	62.386	1.00	44.73
ATOM	1935	C	GLU	259	-2.600	41.629	61.498	1.00	36.27
ATOM	1936	O	GLU	259	-2.258	43.636	60.391	1.00	36.63
ATOM	1937	N	GLU	260	-3.881	42.468	61.444	1.00	36.22
ATOM	1938	CA	GLU	260	-4.935	41.350	60.130	1.00	36.42
ATOM	1939	CB	GLU	260	-6.316	42.694	61.673	1.00	39.45
ATOM	1940	CG	GLU	260	-6.284	44.854	63.097	1.00	43.52
ATOM	1941	CD	GLU	260	-5.523	42.347	64.088	1.00	46.63
ATOM	1942	OE1	GLU	260	-6.384	41.325	64.306	1.00	47.92
ATOM	1943	OE2	GLU	260	-4.637	43.136	64.656	1.00	46.44
ATOM	1944	C	GLU	260	-5.057	41.724	59.836	1.00	35.35
ATOM	1945	O	GLU	260	-5.677	41.640	59.792	1.00	34.86
ATOM	1946	N	HIS	261	-4.434	46.737	60.064	1.00	34.79
ATOM	1947	CA	HIS	261	-4.443	49.471	59.131	1.00	34.15
ATOM	1948	CB	HIS	261	-4.770	48.134	59.657	1.00	32.16
ATOM	1949	CG	HIS	261	-6.094	48.213	60.687	1.00	31.51
ATOM	1950	CD	HIS	261	-6.790	48.019	61.013	1.00	31.76
ATOM	1951	CE1	HIS	261	-7.243	48.463	60.149	1.00	30.98
ATOM	1952	CE2	HIS	261	-8.159	48.411	61.106	1.00	28.87
ATOM	1953	CE3	HIS	261	-7.543	48.134	61.136	1.00	28.77

ATOM	1954	C	HIS	261	1.118	39.330	53.424	1.00	35.41
ATOM	1955	O	HIS	261	1.912	58.408	57.631	1.00	35.55
ATOM	1956	N	SEP	262	1.195	40.248	54.716	1.00	35.97
ATOM	1957	CA	SEP	262	0.864	40.276	54.137	1.00	36.99
ATOM	1958	CB	SEP	262	-0.177	40.483	54.221	1.00	36.31
ATOM	1959	OG	SEP	262	-0.052	39.540	60.279	1.00	37.80
ATOM	1960	C	SEP	262	-0.703	41.254	54.014	1.00	38.31
ATOM	1961	O	SEP	262	1.488	42.203	56.909	1.00	37.66
ATOM	1962	N	FHE	263	-0.517	41.050	52.178	1.00	40.01
ATOM	1963	CA	FHE	263	-0.600	41.955	55.068	1.00	41.83
ATOM	1964	CB	FHE	263	-0.434	41.243	53.718	1.00	42.58
ATOM	1965	CG	FHE	263	0.969	40.797	55.429	1.00	43.74
ATOM	1966	CD1	FHE	263	1.366	39.447	55.467	1.00	43.83
ATOM	1967	CD2	FHE	263	1.954	41.722	55.110	1.00	44.25
ATOM	1968	CE1	FHE	263	2.605	39.029	55.190	1.00	44.88
ATOM	1969	CE2	FHE	263	1.054	41.322	52.332	1.00	45.25
ATOM	1970	CZ	FHE	263	1.982	39.970	52.371	1.00	45.70
ATOM	1971	O	FHE	263	-2.028	42.482	54.169	1.00	42.79
ATOM	1972	O	FHE	263	-1.827	41.984	55.901	1.00	41.84
ATOM	1973	N	HIS	264	-1.435	43.490	54.359	1.00	44.71
ATOM	1974	CA	HIS	264	-1.661	44.100	54.333	1.00	47.34
ATOM	1975	CB	HIS	264	-1.019	43.145	55.303	1.00	48.50
ATOM	1976	CG	HIS	264	-1.546	44.897	54.715	1.00	48.57
ATOM	1977	CH1	HIS	264	-2.562	43.229	57.485	1.00	49.76
ATOM	1978	CH2	HIS	264	-4.194	44.037	57.380	1.00	49.75
ATOM	1979	CE1	HIS	264	-3.977	43.854	58.615	1.00	50.24
ATOM	1980	NE2	HIS	264	-2.874	44.568	58.401	1.00	49.74
ATOM	1981	O	HIS	264	-4.928	44.577	57.777	1.00	47.60
ATOM	1982	O	HIS	264	-5.744	44.355	52.463	1.00	48.71
ATOM	1983	CHT	HIS	264	-3.178	45.345	52.312	1.00	48.39
ATOM	1984	C1	HPL	265	5.682	27.716	51.518	1.00	41.54
ATOM	1985	C2	HPL	265	4.190	28.479	51.478	1.00	40.60
ATOM	1986	C3	HPL	265	4.454	15.755	52.846	1.00	39.94
ATOM	1987	C4	HPL	265	3.707	16.938	51.779	1.00	41.77
ATOM	1988	C1	HPL	265	3.043	27.030	51.719	1.00	43.47
ATOM	1989	C5	HPL	265	4.307	15.515	50.360	1.00	40.98
ATOM	1990	C2	HPL	265	3.703	25.339	42.713	1.00	38.16
ATOM	1991	C3	HPL	265	5.436	24.423	48.454	1.00	33.07
ATOM	1992	C5	HPL	265	6.453	25.170	50.502	1.00	40.08
ATOM	1993	C4	HPL	265	5.685	34.104	48.674	1.00	38.37
ATOM	1994	CB	MET	301	16.154	43.498	31.231	1.00	89.41
ATOM	1995	CG	MET	301	15.177	44.253	30.326	1.00	81.85
ATOM	1996	SD	MET	301	13.933	45.244	31.185	1.00	84.34
ATOM	1997	CE	MET	301	12.458	44.233	30.946	1.00	83.29
ATOM	1998	C	MET	301	14.844	42.880	33.290	1.00	78.13
ATOM	1999	O	MET	301	13.030	44.037	33.680	1.00	78.18
ATOM	2000	N	MET	301	11.641	41.531	31.184	1.00	78.62
ATOM	2001	CA	MET	301	13.549	42.343	32.945	1.00	78.92
ATOM	2002	N	LYS	302	11.046	42.001	33.914	1.00	76.63
ATOM	2003	CA	LYS	302	13.309	42.378	35.118	1.00	75.10
ATOM	2004	CB	LYS	302	11.941	42.982	34.740	1.00	75.44
ATOM	2005	CG	LYS	302	11.997	44.455	34.355	1.00	75.76
ATOM	2006	CD	LYS	302	12.271	45.239	35.571	1.00	75.67
ATOM	2007	CE	LYS	302	11.147	45.211	36.534	1.00	75.44
ATOM	2008	NZ	LYS	302	11.411	46.017	37.817	1.00	75.82
ATOM	2009	O	LYS	302	13.051	41.133	38.031	1.00	73.54
ATOM	2010	O	LYS	302	13.153	41.300	37.796	1.00	74.12
ATOM	2011	N	PRO	303	12.817	40.247	35.334	1.00	71.41
ATOM	2012	CB	PRO	303	12.659	38.812	36.425	1.00	70.80
ATOM	2013	CA	PRO	303	12.717	39.597	37.113	1.00	69.04
ATOM	2014	CB	PRO	303	11.781	38.034	34.213	1.00	69.93
ATOM	2015	CG	PRO	303	12.068	37.812	35.427	1.00	70.52
ATOM	2016	O	PRO	303	11.467	40.139	36.444	1.00	68.77
ATOM	2017	O	PRO	303	12.467	40.417	34.087	1.00	66.87
ATOM	2018	N	THR	304	11.588	40.237	37.127	1.00	64.90
ATOM	2019	CA	THR	304	12.474	40.781	37.337	1.00	61.28
ATOM	2020	CB	THR	304	10.839	40.816	35.843	1.00	61.51
ATOM	2021	CG	THR	304	12.785	41.488	36.668	1.00	60.91
ATOM	2022	CH	THR	304	9.759	41.569	37.062	1.00	60.78
ATOM	2023	O	THR	304	9.231	38.677	37.525	1.00	59.69
ATOM	2024	O	THR	304	9.487	38.677	37.563	1.00	59.05
ATOM	2025	N	THR	305	9.979	41.157	37.644	1.00	57.60
ATOM	2026	CA	THR	305	9.899	39.783	37.839	1.00	59.83
ATOM	2027	CB	THR	305	9.227	40.074	37.294	1.00	59.67
ATOM	2028	CG	THR	305	9.863	41.465	37.293	1.00	58.27
ATOM	2029	CH	THR	305	9.136	40.177	37.317	1.00	59.13
ATOM	2030	O	THR	305	9.137	41.133	37.258	1.00	58.15

ATOM	2031	O	THR	305	5.963	41.108	30.020	1.00	54.85
ATOM	2032	N	ILE	306	4.755	39.328	30.680	1.00	54.30
ATOM	2033	CA	ILE	306	3.698	39.543	19.704	1.00	54.29
ATOM	2034	CB	ILE	306	1.606	39.462	19.811	1.00	54.30
ATOM	2035	CG2	ILE	306	1.643	39.563	28.644	1.00	54.60
ATOM	2036	CG1	ILE	306	3.243	37.074	29.846	1.00	54.90
ATOM	2037	CD1	ILE	306	1.276	39.949	30.142	1.00	55.20
ATOM	2038	C	ILE	306	1.061	40.905	29.940	1.00	54.16
ATOM	2039	O	ILE	306	1.642	41.584	28.909	1.00	57.60
ATOM	2040	N	SEF	307	1.990	41.199	31.103	1.00	53.98
ATOM	2041	CA	SEF	307	1.401	40.539	31.183	1.00	54.21
ATOM	2042	CB	SEF	307	1.521	40.733	33.101	1.00	54.70
ATOM	2043	OG	SEF	307	1.851	41.744	33.801	1.00	55.29
ATOM	2044	C	SEF	307	3.064	41.745	30.855	1.00	53.70
ATOM	2045	O	SEF	307	1.38	44.453	30.379	1.00	54.19
ATOM	2046	N	LEU	308	4.391	43.712	30.779	1.00	53.00
ATOM	2047	CA	LEU	308	1.141	44.761	30.093	1.00	53.53
ATOM	2048	CB	LEU	308	0.633	44.411	30.644	1.00	53.46
ATOM	2049	CG	LEU	308	1.431	44.383	31.291	1.00	54.50
ATOM	2050	CD1	LEU	308	1.73	44.105	31.201	1.00	54.60
ATOM	2051	CD2	LEU	308	1.48	44.104	31.411	1.00	54.18
ATOM	2052	C	LEU	308	4.63	44.928	30.679	1.00	53.63
ATOM	2053	O	LEU	308	4.351	43.124	30.279	1.00	51.23
ATOM	2054	N	LEU	309	4.504	41.965	30.901	1.00	53.17
ATOM	2055	CA	LEU	309	3.123	41.990	30.544	1.00	50.60
ATOM	2056	CB	LEU	309	3.991	42.399	31.911	1.00	57.19
ATOM	2057	CG	LEU	309	5.131	41.872	30.861	1.00	50.15
ATOM	2058	CD1	LEU	309	5.101	40.469	33.277	1.00	50.86
ATOM	2059	CD2	LEU	309	6.271	40.646	34.894	1.00	51.50
ATOM	2060	C	LEU	309	10.621	41.198	26.581	1.00	53.69
ATOM	2061	O	LEU	309	2.311	41.429	25.671	1.00	53.60
ATOM	2062	N	GLN	310	1.791	44.183	25.471	1.00	54.00
ATOM	2063	CA	GLN	310	0.421	44.685	27.576	1.00	55.21
ATOM	2064	CB	GLN	310	-0.311	44.939	28.111	1.00	55.07
ATOM	2065	CG	GLN	310	-1.811	44.713	28.181	1.00	55.60
ATOM	2066	CD	GLN	310	-2.571	44.773	27.911	1.00	56.41
ATOM	2067	OE1	GLN	310	-2.391	41.754	28.471	1.00	56.40
ATOM	2068	NE2	GLN	310	-3.441	44.784	27.801	1.00	57.08
ATOM	2069	C	GLN	310	0.441	44.181	25.871	1.00	56.02
ATOM	2070	O	GLN	310	-0.161	44.949	28.111	1.00	56.08
ATOM	2071	N	LYS	311	1.151	44.636	28.181	1.00	56.45
ATOM	2072	CA	LYS	311	1.161	44.616	28.111	1.00	57.85
ATOM	2073	CB	LYS	311	2.361	43.216	30.266	1.00	58.44
ATOM	2074	CG	LYS	311	2.419	49.668	30.771	1.00	59.71
ATOM	2075	CD	LYS	311	3.851	50.116	30.931	1.00	60.00
ATOM	2076	DE	LYS	311	4.611	49.364	31.981	1.00	60.14
ATOM	2077	NE2	LYS	311	6.011	49.849	32.111	1.00	59.97
ATOM	2078	C	LYS	311	1.821	48.836	25.901	1.00	57.84
ATOM	2079	O	LYS	311	1.341	48.938	25.611	1.00	57.02
ATOM	2080	N	TYR	312	2.171	49.269	27.181	1.00	58.56
ATOM	2081	CA	TYR	312	3.111	48.913	25.971	1.00	59.19
ATOM	2082	CB	TYR	312	4.169	48.014	25.311	1.00	60.06
ATOM	2083	CG	TYR	312	5.841	47.859	26.111	1.00	61.17
ATOM	2084	CD1	TYR	312	6.831	46.960	25.601	1.00	61.63
ATOM	2085	CD2	TYR	312	7.811	46.789	26.411	1.00	61.39
ATOM	2086	CE2	TYR	312	5.855	48.557	27.201	1.00	61.70
ATOM	2087	CE1	TYR	312	7.036	48.364	28.011	1.00	61.56
ATOM	2088	CZ	TYR	312	8.091	47.923	27.511	1.00	61.51
ATOM	2089	OH	TYR	312	9.170	47.369	26.711	1.00	61.99
ATOM	2090	O	TYR	312	10.230	49.343	24.911	1.00	60.16
ATOM	2091	C	TRP	313	10.287	55.779	24.131	1.00	60.19
ATOM	2092	N	TRP	313	1.244	48.389	24.301	1.00	60.11
ATOM	2093	CA	TRP	313	0.155	48.579	23.831	1.00	60.59
ATOM	2094	CB	TRP	313	-0.720	47.324	23.771	1.00	59.68
ATOM	2095	CG	TRP	313	-1.855	47.366	22.566	1.00	59.18
ATOM	2096	CD	TRP	313	-2.535	46.141	21.461	1.00	57.34
ATOM	2097	CE	TRP	313	-3.587	46.518	21.177	1.00	57.43
ATOM	2098	NE2	TRP	313	-4.149	45.023	20.332	1.00	57.19
ATOM	2099	C	TRP	313	-5.889	44.771	24.330	1.00	60.09
ATOM	2100	O	TRP	313	-1.151	50.558	23.505	1.00	61.46
ATOM	2101	N	GLN	314	1.871	44.653	25.608	1.00	61.89
ATOM	2102	CA	GLN	314	-1.031	41.924	24.181	1.00	61.46
ATOM	2103	CB	GLN	314	-1.008	50.747	23.661	1.00	61.34
ATOM	2104	CG	GLN	314	-2.811	49.507	23.909	1.00	61.96
ATOM	2105	CD	GLN	314	-3.279	44.296	23.166	1.00	61.43
ATOM	2106	CE1	GLN	314	-3.771	50.109	23.047	1.00	61.71
ATOM	2107	CE2	GLN	314	-3.731	48.111	23.866	1.00	61.33

ATOM	2108	C	GLN	314	-0.890	52.313	26.040	1.00	64.13
ATOM	2109	O	GLN	314	-1.199	53.383	26.378	1.00	65.09
ATOM	2110	N	GLU	315	0.326	52.117	25.532	1.00	64.44
ATOM	2111	CA	GLU	315	1.186	53.386	25.332	1.00	64.89
ATOM	2112	CB	GLU	315	2.456	53.154	26.149	1.00	65.03
ATOM	2113	CG	GLU	315	2.159	53.017	27.677	1.00	65.40
ATOM	2114	CD	GLU	315	1.168	52.910	28.367	1.00	65.91
ATOM	2115	OE1	GLU	315	6.414	52.101	28.037	1.00	65.38
ATOM	2116	OE2	GLU	315	1.102	52.631	29.414	1.00	66.44
ATOM	2117	C	GLU	315	1.532	53.541	23.835	1.00	64.31
ATOM	2118	O	GLU	315	2.723	54.408	23.480	1.00	64.82
ATOM	2119	N	LYS	316	0.938	52.692	23.533	1.00	64.19
ATOM	2120	CA	LYS	316	1.176	52.731	21.785	1.00	64.11
ATOM	2121	CB	LYS	316	0.664	54.024	20.993	1.00	64.07
ATOM	2122	CG	LYS	316	-0.840	54.306	21.287	1.00	64.10
ATOM	2123	CF	LYS	316	-1.794	55.159	20.833	1.00	63.85
ATOM	2124	CE	LYS	316	-3.220	52.514	21.206	1.00	63.39
ATOM	2125	NZ	LYS	316	-5.733	54.874	20.534	1.00	62.14
ATOM	2126	C	LYS	316	1.631	52.643	21.236	1.00	64.15
ATOM	2127	O	LYS	316	2.137	52.160	20.233	1.00	63.13
ATOM	2128	N	LYS	317	0.391	51.878	23.377	1.00	64.17
ATOM	2129	CA	LYS	317	0.833	51.162	21.236	1.00	63.10
ATOM	2130	CB	LYS	317	0.313	51.810	23.217	1.00	63.11
ATOM	2131	CG	LYS	317	1.531	51.396	23.138	1.00	63.13
ATOM	2132	CD	LYS	317	2.629	51.451	24.141	1.00	63.11
ATOM	2133	CE	LYS	317	1.348	52.320	25.231	1.00	63.17
ATOM	2134	NZ	LYS	317	3.145	51.162	26.734	1.00	60.68
ATOM	2135	C	LYS	318	0.157	52.149	21.277	1.00	63.13
ATOM	2136	O	LYS	318	0.331	49.751	21.384	1.00	63.13
ATOM	2137	N	ARG	318	0.361	52.342	19.236	1.00	63.10
ATOM	2138	CA	ARG	318	0.682	48.109	19.170	1.00	59.68
ATOM	2139	CB	ARG	318	0.160	49.370	17.733	1.00	60.30
ATOM	2140	CG	ARG	318	0.418	49.144	17.130	1.00	61.19
ATOM	2141	CD	ARG	318	0.469	49.737	15.604	1.00	61.14
ATOM	2142	NE	ARG	318	0.410	51.198	15.018	1.00	61.30
ATOM	2143	CZ	ARG	318	0.315	51.885	14.337	1.00	61.38
ATOM	2144	NH1	ARG	318	0.337	51.749	13.117	1.00	60.38
ATOM	2145	NH2	ARG	318	0.331	52.111	14.333	1.00	60.36
ATOM	2146	C	ARG	319	0.990	48.397	19.334	1.00	59.84
ATOM	2147	O	ARG	319	1.514	48.174	19.330	1.00	59.17
ATOM	2148	N	PHE	319	0.928	47.341	20.136	1.00	57.39
ATOM	2149	CA	PHE	319	0.089	46.130	20.367	1.00	55.49
ATOM	2150	CB	PHE	319	0.715	45.856	22.333	1.00	56.11
ATOM	2151	CG	PHE	319	0.465	45.036	21.345	1.00	55.37
ATOM	2152	CD1	PHE	319	0.465	45.768	21.338	1.00	56.34
ATOM	2153	CD2	PHE	319	0.270	45.343	22.336	1.00	56.37
ATOM	2154	CE1	PHE	319	0.281	47.018	21.334	1.00	57.19
ATOM	2155	CE2	PHE	319	0.080	44.803	22.339	1.00	56.83
ATOM	2156	CZ	PHE	319	0.101	47.339	21.331	1.00	56.34
ATOM	2157	O	PHE	319	0.652	45.497	19.632	1.00	54.04
ATOM	2158	O	PHE	319	0.952	45.063	18.336	1.00	53.39
ATOM	2159	N	ALA	320	0.887	45.106	19.330	1.00	51.33
ATOM	2160	CA	ALA	320	13.527	44.135	19.013	1.00	49.36
ATOM	2161	CB	ALA	320	11.880	44.865	18.332	1.00	49.39
ATOM	2162	C	ALA	320	12.695	43.773	13.636	1.00	47.31
ATOM	2163	O	ALA	320	13.899	42.677	20.336	1.00	47.41
ATOM	2164	N	THR	321	13.607	43.121	18.339	1.00	45.33
ATOM	2165	CA	THR	321	12.785	43.353	13.337	1.00	43.33
ATOM	2166	CB	THR	321	0.083	46.692	13.339	1.00	43.59
ATOM	2167	CG1	THR	321	0.318	40.472	23.330	1.00	44.16
ATOM	2168	CG2	THR	321	0.553	38.293	23.331	1.00	44.04
ATOM	2169	C	THR	321	11.533	43.347	13.337	1.00	41.33
ATOM	2170	O	THR	321	11.856	42.204	17.139	1.00	41.39
ATOM	2171	N	ILE	322	12.799	42.551	13.336	1.00	49.33
ATOM	2172	CA	ILE	322	12.637	42.722	17.337	1.00	58.34
ATOM	2173	CB	ILE	322	14.479	41.334	17.339	1.00	59.39
ATOM	2174	CG	ILE	322	13.310	42.353	18.334	1.00	58.31
ATOM	2175	CY1	ILE	322	14.165	41.692	16.439	1.00	49.63
ATOM	2176	CY2	ILE	322	14.436	41.388	16.035	1.00	40.34
ATOM	2177	C	ILE	322	13.200	42.259	18.333	1.00	47.31
ATOM	2178	O	ILE	322	14.237	41.005	14.337	1.00	36.36
ATOM	2179	N	THR	323	14.544	41.381	17.438	1.00	45.33
ATOM	2180	CA	THR	323	14.719	41.990	17.817	1.00	43.33
ATOM	2181	CB	THR	323	14.391	41.334	16.633	1.00	43.33
ATOM	2182	CG1	THR	323	14.346	43.202	15.536	1.00	33.39
ATOM	2183	CG2	THR	323	11.899	42.231	14.036	1.00	34.33
ATOM	2184	C	THR	323	12.173	42.212	14.131	1.00	41.33

ATOM	2185	O	THR	323	16.071	24.459	17.879	1.00	20.93
ATOM	2186	N	ALA	324	15.245	32.661	19.023	1.00	30.73
ATOM	2187	CA	ALA	324	16.662	32.257	19.518	1.00	17.91
ATOM	2188	CB	ALA	324	17.022	33.025	20.763	1.00	19.81
ATOM	2189	C	ALA	324	16.618	30.758	19.800	1.00	28.38
ATOM	2190	O	ALA	324	15.618	30.747	20.312	1.00	16.39
ATOM	2191	N	TYR	325	17.503	30.059	19.472	1.00	25.02
ATOM	2192	CA	TYR	325	17.759	28.616	19.663	1.00	25.26
ATOM	2193	CB	TYR	325	17.603	27.909	18.315	1.00	21.25
ATOM	2194	CG	TYR	325	16.645	28.396	17.772	1.00	24.94
ATOM	2195	CD1	TYR	325	17.109	29.701	16.417	1.00	23.97
ATOM	2196	CE1	TYR	325	16.134	30.125	15.513	1.00	15.04
ATOM	2197	CD2	TYR	325	15.275	28.356	17.427	1.00	25.25
ATOM	2198	CE2	TYR	325	14.392	28.954	16.557	1.00	12.58
ATOM	2199	CZ	TYR	325	14.876	29.845	15.606	1.00	24.69
ATOM	2200	OH	TYR	325	14.003	30.434	14.725	1.00	25.37
ATOM	2201	C	THR	325	19.038	28.131	20.555	1.00	25.49
ATOM	2202	O	TYR	325	19.087	26.951	20.400	1.00	28.39
ATOM	2203	N	ASP	326	19.354	28.052	20.821	1.00	15.48
ATOM	2204	CA	ASP	326	21.032	28.947	21.487	1.00	25.25
ATOM	2205	CB	ASP	326	21.763	28.392	20.437	1.00	16.90
ATOM	2206	CG	ASP	326	21.045	29.761	19.767	1.00	17.97
ATOM	2207	CD1	ASP	326	20.794	30.459	20.397	1.00	28.63
ATOM	2208	OD2	ASP	326	22.093	29.381	18.663	1.00	28.93
ATOM	2209	C	ASP	326	21.561	29.857	22.519	1.00	26.59
ATOM	2210	O	ASP	326	20.991	30.753	22.186	1.00	30.01
ATOM	2211	N	THR	327	27.347	29.332	22.339	1.00	23.76
ATOM	2212	CA	THR	327	25.306	30.352	24.777	1.00	16.94
ATOM	2213	CB	THR	327	24.103	29.385	25.077	1.00	21.91
ATOM	2214	CG	THR	327	24.767	30.115	26.037	1.00	25.27
ATOM	2215	CD1	THR	327	24.445	30.362	27.331	1.00	16.93
ATOM	2216	CE1	THR	327	25.196	31.331	28.109	1.00	37.29
ATOM	2217	CD2	THR	327	26.181	30.358	25.344	1.00	35.38
ATOM	2218	CE2	THR	327	27.028	31.417	26.343	1.00	15.93
ATOM	2219	CZ	THR	327	26.472	31.559	27.669	1.00	25.24
ATOM	2220	OH	THR	327	27.148	32.311	28.755	1.00	17.27
ATOM	2221	C	TYR	327	21.677	31.461	23.790	1.00	16.48
ATOM	2222	O	TYR	327	23.116	32.343	24.148	1.00	18.63
ATOM	2223	N	SER	328	24.645	31.347	22.805	1.00	21.30
ATOM	2224	CA	SER	328	25.710	32.709	22.744	1.00	31.63
ATOM	2225	CB	SER	328	26.132	32.057	21.105	1.00	21.10
ATOM	2226	CG	SER	328	27.137	32.331	21.683	1.00	21.54
ATOM	2227	C	SER	328	24.411	31.920	21.905	1.00	23.49
ATOM	2228	O	SER	328	24.499	34.712	22.478	1.00	25.08
ATOM	2229	N	PRO	329	23.608	33.353	20.582	1.00	13.75
ATOM	2230	CA	PRO	329	22.645	34.373	20.780	1.00	35.28
ATOM	2231	CB	PRO	329	21.957	33.876	19.134	1.00	26.14
ATOM	2232	CG	PRO	329	22.734	33.315	17.884	1.00	37.89
ATOM	2233	CD1	PRO	329	23.736	32.760	17.791	1.00	27.32
ATOM	2234	CD2	PRO	329	22.435	31.117	17.107	1.00	17.37
ATOM	2235	CE1	PRO	329	24.135	32.803	16.143	1.00	17.43
ATOM	2236	CE2	PRO	329	23.731	35.169	16.061	1.00	27.67
ATOM	2237	CZ	PRO	329	24.378	34.311	15.376	1.00	18.93
ATOM	2238	C	PRO	329	21.631	34.872	21.115	1.00	16.35
ATOM	2239	O	PRO	329	21.344	36.040	21.387	1.00	35.47
ATOM	2240	N	ASA	330	21.333	35.397	22.229	1.00	36.19
ATOM	2241	CA	ASA	330	20.829	34.382	23.743	1.00	37.11
ATOM	2242	CB	ASA	330	19.629	35.159	24.127	1.00	27.11
ATOM	2243	C	ASA	330	20.430	35.453	24.175	1.00	36.43
ATOM	2244	O	ASA	330	20.284	35.456	24.730	1.00	36.42
ATOM	2245	N	LYS	331	22.169	35.224	24.733	1.00	40.16
ATOM	2246	CA	LYS	331	22.477	36.150	25.733	1.00	42.64
ATOM	2247	CB	LYS	331	24.133	35.560	25.443	1.00	43.34
ATOM	2248	CG	LYS	331	25.956	35.401	26.417	1.00	45.15
ATOM	2249	CD	LYS	331	24.194	36.320	28.362	1.00	43.33
ATOM	2250	CE	LYS	331	25.099	37.032	29.375	1.00	46.88
ATOM	2251	NZ	LYS	331	25.159	38.510	29.177	1.00	53.21
ATOM	2252	C	LYS	331	23.084	37.497	24.737	1.00	42.68
ATOM	2253	O	LYS	331	23.006	38.554	29.737	1.00	44.09
ATOM	2254	N	LEU	332	23.351	37.445	25.134	1.00	45.78
ATOM	2255	CA	LEU	332	23.976	38.646	26.897	1.00	42.72
ATOM	2256	CB	LEU	332	24.133	38.249	21.873	1.00	41.69
ATOM	2257	CG	LEU	332	24.502	39.350	20.443	1.00	43.53
ATOM	2258	CD1	LEU	332	25.479	38.763	18.448	1.00	41.43
ATOM	2259	CD2	LEU	332	23.315	39.981	19.731	1.00	42.63
ATOM	2260	C	LEU	332	22.377	39.965	21.734	1.00	43.47
ATOM	2261	O	LEU	332	22.146	40.179	22.166	1.00	41.17

ATOM	2262	N	PHE	333	21.204	29.004	22.463	1.00	42.78
ATOM	2263	CA	PHE	333	19.997	29.814	22.387	1.00	43.66
ATOM	2264	CB	PHE	333	18.818	28.983	21.680	1.00	43.29
ATOM	2265	CG	PHE	333	19.080	28.229	20.580	1.00	43.11
ATOM	2266	CD1	PHE	333	19.756	28.912	19.548	1.00	42.14
ATOM	2267	CD2	PHE	333	18.640	26.985	20.379	1.00	42.92
ATOM	2268	CE1	PHE	333	19.977	28.306	18.534	1.00	42.67
ATOM	2269	CE2	PHE	333	18.860	26.311	19.169	1.00	42.88
ATOM	2270	CZ	PHE	333	19.131	27.081	18.141	1.00	42.87
ATOM	2271	C	PHE	333	19.651	40.333	21.547	1.00	44.42
ATOM	2272	O	PHE	333	19.189	41.500	22.851	1.00	43.85
ATOM	2273	N	ALA	334	19.881	39.600	24.789	1.00	45.14
ATOM	2274	CA	ALA	334	19.192	40.019	26.154	1.00	45.59
ATOM	2275	CB	ALA	334	19.912	28.864	25.121	1.00	45.78
ATOM	2276	C	ALA	334	20.376	41.203	26.538	1.00	45.65
ATOM	2277	O	ALA	334	19.837	42.179	27.162	1.00	46.18
ATOM	2278	N	ASP	335	21.649	41.226	26.160	1.00	45.92
ATOM	2279	CA	ASP	335	22.109	41.419	26.481	1.00	45.71
ATOM	2280	CB	ASP	335	23.957	41.019	26.188	1.00	44.57
ATOM	2281	CG	ASP	335	24.177	40.209	25.171	1.00	43.56
ATOM	2282	CD1	ASP	335	25.136	40.404	26.141	1.00	43.50
ATOM	2283	CD2	ASP	335	25.158	40.001	26.849	1.00	43.87
ATOM	2284	O	ASP	335	22.162	41.609	26.581	1.00	46.13
ATOM	2285	O	ASP	335	22.912	44.600	25.131	1.00	46.45
ATOM	2286	N	GLU	336	21.124	43.301	24.654	1.00	47.36
ATOM	2287	CA	GLU	336	20.999	44.500	24.141	1.00	49.00
ATOM	2288	CB	GLU	336	21.067	44.009	23.296	1.00	49.86
ATOM	2289	CG	GLU	336	21.455	43.705	22.628	1.00	51.30
ATOM	2290	CD	GLU	336	23.450	44.801	21.000	1.00	51.76
ATOM	2291	OE1	GLU	336	23.104	45.933	21.318	1.00	53.73
ATOM	2292	OE2	GLU	336	24.443	44.802	20.174	1.00	54.30
ATOM	2293	O	GLU	336	19.620	45.106	24.026	1.00	49.21
ATOM	2294	C	GLU	336	19.171	46.000	21.341	1.00	49.78
ATOM	2295	N	GLY	337	18.948	44.808	20.633	1.00	49.15
ATOM	2296	CA	GLY	337	17.705	45.604	21.386	1.00	49.61
ATOM	2297	C	GLY	337	16.493	44.109	24.981	1.00	50.11
ATOM	2298	O	GLY	337	16.307	44.318	21.454	1.00	49.93
ATOM	2299	N	LEU	338	16.755	43.219	21.085	1.00	50.31
ATOM	2300	CA	LEU	338	16.709	42.267	21.637	1.00	50.74
ATOM	2301	CB	LEU	338	16.108	41.701	21.223	1.00	50.96
ATOM	2302	CG	LEU	338	15.756	42.208	21.079	1.00	51.66
ATOM	2303	CD1	LEU	338	16.257	42.133	21.763	1.00	52.47
ATOM	2304	CD2	LEU	338	14.243	42.333	21.044	1.00	52.43
ATOM	2305	C	LEU	338	15.674	41.003	24.575	1.00	50.23
ATOM	2306	O	LEU	338	16.430	40.109	24.459	1.00	50.65
ATOM	2307	N	ASN	339	14.729	41.146	24.506	1.00	49.73
ATOM	2308	CA	ASN	339	14.514	40.006	21.469	1.00	48.47
ATOM	2309	CB	ASN	339	14.536	40.617	21.889	1.00	50.75
ATOM	2310	CG	ASN	339	15.942	40.386	21.359	1.00	52.34
ATOM	2311	OD1	ASN	339	16.706	40.105	21.759	1.00	52.97
ATOM	2312	ND2	ASN	339	16.192	42.267	21.301	1.00	52.70
ATOM	2313	C	ASN	339	13.194	39.355	21.204	1.00	46.90
ATOM	2314	O	ASN	339	12.490	38.961	21.129	1.00	46.89
ATOM	2315	N	VAL	340	12.868	39.105	24.927	1.00	44.67
ATOM	2316	CA	VAL	340	13.645	38.509	21.518	1.00	43.58
ATOM	2317	CB	VAL	340	16.565	39.301	21.082	1.00	43.66
ATOM	2318	CG1	VAL	340	16.207	38.208	21.779	1.00	43.89
ATOM	2319	CG2	VAL	340	16.345	40.350	21.147	1.00	43.92
ATOM	2320	C	VAL	340	11.991	37.507	21.345	1.00	42.70
ATOM	2321	O	VAL	340	11.807	37.305	21.162	1.00	42.86
ATOM	2322	N	MET	341	12.496	36.410	23.667	1.00	41.15
ATOM	2323	CA	MET	341	12.900	35.136	21.664	1.00	37.70
ATOM	2324	CB	MET	341	14.228	41.374	21.056	1.00	39.76
ATOM	2325	CG	MET	341	15.463	51.303	21.846	1.00	38.98
ATOM	2326	CD	MET	341	21.336	35.526	21.975	1.00	43.33
ATOM	2327	CE	MET	341	11.743	36.302	21.141	1.00	41.85
ATOM	2328	O	MET	341	11.810	34.209	21.461	1.00	36.58
ATOM	2329	C	MET	341	11.106	33.805	21.389	1.00	31.34
ATOM	2330	N	LEU	341	11.858	33.734	21.136	1.00	33.92
ATOM	2331	CA	LEU	341	10.343	32.607	21.204	1.00	31.78
ATOM	2332	CB	LEU	341	9.873	33.204	21.835	1.00	33.59
ATOM	2333	CG	LEU	341	8.658	32.204	21.100	1.00	31.92
ATOM	2334	CD1	LEU	341	9.491	31.600	19.941	1.00	35.45
ATOM	2335	CD2	LEU	341	8.399	31.200	20.256	1.00	35.85
ATOM	2336	C	LEU	341	11.071	31.405	20.317	1.00	28.89
ATOM	2337	O	LEU	341	11.309	31.594	19.304	1.00	28.48
ATOM	2338	N	VAL	341	11.493	30.304	20.597	1.00	31.63

ATOM	2339	CA	VAL	343	12.099	29.093	20.483	1.00	24.23
ATOM	2340	CB	VAL	343	12.543	28.193	21.664	1.00	24.85
ATOM	2341	CD1	VAL	343	13.222	26.942	21.135	1.00	24.17
ATOM	2342	O2	VAL	343	13.490	28.960	22.585	1.00	24.85
ATOM	2343	C	VAL	343	11.601	28.393	19.685	1.00	23.87
ATOM	2344	O	VAL	343	10.155	27.575	20.210	1.00	23.67
ATOM	2345	N	GLY	344	10.900	28.737	18.404	1.00	23.68
ATOM	2346	CA	GLY	344	9.871	28.132	17.561	1.00	24.64
ATOM	2347	C	GLY	344	10.312	26.961	16.736	1.00	23.93
ATOM	2348	O	GLY	344	11.507	26.689	16.621	1.00	22.31
ATOM	2349	N	ASP	345	9.340	26.213	16.161	1.00	23.67
ATOM	2350	CA	ASP	345	9.625	26.085	15.342	1.00	24.70
ATOM	2351	CB	ASP	345	8.342	24.306	15.027	1.00	26.36
ATOM	2352	CG	ASP	345	7.701	25.196	14.563	1.00	26.19
ATOM	2353	OD1	ASP	345	7.454	26.215	14.066	1.00	27.29
ATOM	2354	OD2	ASP	345	6.042	24.719	14.691	1.00	28.98
ATOM	2355	C	ASP	345	10.133	25.464	14.051	1.00	25.12
ATOM	2356	O	ASP	345	10.700	24.510	13.260	1.00	25.75
ATOM	2357	N	PEP	346	10.518	26.761	13.846	1.00	24.45
ATOM	2358	CA	PEP	346	11.211	27.118	11.649	1.00	23.43
ATOM	2359	CB	PEP	346	11.213	26.339	10.473	1.00	23.62
ATOM	2360	CG	PEP	346	11.844	26.119	10.716	1.00	23.17
ATOM	2361	C	PEP	346	11.865	26.675	10.205	1.00	23.60
ATOM	2362	O	PEP	346	11.212	26.318	11.035	1.00	24.40
ATOM	2363	N	LEU	347	11.090	26.216	13.969	1.00	22.17
ATOM	2364	CA	LEU	347	14.417	25.710	14.161	1.00	21.78
ATOM	2365	CB	LEU	347	14.614	25.411	15.631	1.00	22.14
ATOM	2366	C	LEU	347	11.711	24.461	16.311	1.00	21.80
ATOM	2367	CD1	LEU	347	14.314	25.012	16.115	1.00	21.17
ATOM	2368	CD2	LEU	347	11.746	24.818	15.811	1.00	22.66
ATOM	2369	C	LEU	347	14.548	24.416	15.315	1.00	23.48
ATOM	2370	O	LEU	347	15.613	25.810	11.311	1.00	21.19
ATOM	2371	N	GLY	348	11.415	23.815	12.815	1.00	21.76
ATOM	2372	CA	GLY	348	11.419	23.811	12.198	1.00	21.14
ATOM	2373	C	GLY	348	14.915	23.817	10.814	1.00	24.54
ATOM	2374	O	GLY	348	14.514	23.817	10.119	1.00	24.89
ATOM	2375	N	MET	349	11.918	24.618	10.311	1.00	23.57
ATOM	2376	CA	MET	349	14.418	24.411	9.014	1.00	21.15
ATOM	2377	CB	MET	349	11.349	25.215	8.350	1.00	23.13
ATOM	2378	C	MET	349	11.912	24.419	8.219	1.00	31.17
ATOM	2379	CG	MET	349	10.710	25.311	7.219	1.00	34.95
ATOM	2380	CH	MET	349	11.415	25.118	5.580	1.00	34.51
ATOM	2381	C	MET	349	15.719	25.111	9.118	1.00	21.11
ATOM	2382	CG	MET	349	16.710	24.819	8.448	1.00	26.19
ATOM	2383	N	THR	350	15.714	26.215	9.915	1.00	27.14
ATOM	2384	CA	THR	350	16.915	27.011	10.113	1.00	28.17
ATOM	2385	CB	THR	350	16.514	26.315	10.805	1.00	31.18
ATOM	2386	CG1	THR	350	17.710	29.218	10.710	1.00	34.87
ATOM	2387	CG2	THR	350	16.111	28.111	12.246	1.00	31.41
ATOM	2388	C	THR	350	18.018	26.310	10.926	1.00	28.10
ATOM	2389	O	THR	350	19.215	26.616	10.713	1.00	27.18
ATOM	2390	N	VAL	351	17.217	26.410	11.816	1.00	26.14
ATOM	2391	CA	VAL	351	18.710	24.712	12.648	1.00	26.15
ATOM	2392	CB	VAL	351	18.317	24.810	14.116	1.00	27.11
ATOM	2393	CG1	VAL	351	19.116	24.016	14.816	1.00	26.13
ATOM	2394	CG2	VAL	351	18.218	24.219	14.211	1.00	26.14
ATOM	2395	C	VAL	351	18.915	23.317	12.214	1.00	25.11
ATOM	2396	O	VAL	351	20.118	22.913	12.613	1.00	22.10
ATOM	2397	N	GLN	352	17.919	22.514	12.014	1.00	24.11
ATOM	2398	CA	GLN	352	18.616	21.117	11.613	1.00	23.15
ATOM	2399	CB	GLN	352	18.819	20.319	12.209	1.00	23.18
ATOM	2400	CG	GLN	352	19.518	20.411	13.811	1.00	21.18
ATOM	2401	CD	GLN	352	18.315	19.715	14.115	1.00	20.15
ATOM	2402	OE1	GLN	352	18.419	19.417	12.414	1.00	19.11
ATOM	2403	OE2	GLN	352	18.117	19.416	13.414	1.00	18.11
ATOM	2404	C	GLN	352	16.119	20.911	10.119	1.00	24.11
ATOM	2405	O	GLN	352	18.717	19.617	9.717	1.00	24.16
ATOM	2406	N	GLY	353	18.613	21.919	9.315	1.00	24.14
ATOM	2407	CA	GLY	353	17.618	21.719	7.918	1.00	24.10
ATOM	2408	C	GLY	353	16.917	21.911	8.211	1.00	24.13
ATOM	2409	O	GLY	353	18.818	20.315	6.218	1.00	24.10
ATOM	2410	N	HIS	354	18.313	21.020	7.711	1.00	28.17
ATOM	2411	CA	HIS	354	14.717	20.211	8.117	1.00	24.17
ATOM	2412	CP	HIS	354	14.618	19.817	8.316	1.00	24.17
ATOM	2413	CG	HIS	354	14.916	19.710	9.111	1.00	24.17
ATOM	2414	CH	HIS	354	14.117	19.111	10.118	1.00	24.16
ATOM	2415	NE1	HIS	354	14.111	17.511	8.119	1.00	28.11

ATOM	2416	CE1	HIS	354	14.741	16.766	9.671	1.00	28.40
ATOM	2417	NE2	HIS	354	14.693	17.484	10.780	1.00	27.51
ATOM	2418	C	HIS	354	13.570	21.162	6.198	1.00	31.29
ATOM	2419	O	HIS	354	11.615	22.389	6.227	1.00	31.35
ATOM	2420	N	ASF	355	11.715	20.518	5.326	1.00	35.89
ATOM	2421	CA	ASF	355	11.972	21.214	4.301	1.00	34.61
ATOM	2422	CB	ASF	355	11.479	20.211	3.241	1.00	36.73
ATOM	2423	CG	ASF	355	10.671	19.081	2.841	1.00	41.27
ATOM	2424	CD1	ASF	355	9.616	19.349	4.430	1.00	45.21
ATOM	2425	CD2	ASF	355	11.119	17.916	3.719	1.00	44.12
ATOM	2426	C	ASF	355	10.786	21.993	4.978	1.00	34.04
ATOM	2427	G	ASF	355	10.248	21.898	4.348	1.00	35.71
ATOM	2428	N	SEF	356	10.782	21.563	3.111	1.00	31.21
ATOM	2429	CA	SEF	356	9.118	21.163	3.631	1.00	29.42
ATOM	2430	CB	SEF	356	11.993	21.353	3.531	1.00	29.55
ATOM	2431	CG	SEF	356	11.976	20.644	3.663	1.00	30.46
ATOM	2432	C	SEF	356	9.164	22.618	3.334	1.00	26.94
ATOM	2433	C	SEF	356	10.642	21.627	3.939	1.00	26.83
ATOM	2434	N	THF	357	8.612	22.499	3.141	1.00	16.18
ATOM	2435	CA	THF	357	8.313	22.491	16.593	1.00	14.80
ATOM	2436	CB	THF	357	8.115	23.143	11.114	1.00	17.50
ATOM	2437	CD1	THF	357	6.110	23.713	11.093	1.00	27.16
ATOM	2438	CD2	THF	357	8.117	25.017	10.606	1.00	26.01
ATOM	2439	C	THF	357	8.141	21.188	11.111	1.00	21.78
ATOM	2440	O	THF	357	8.112	21.110	11.141	1.00	21.76
ATOM	2441	N	LEU	358	7.849	20.466	10.470	1.00	21.94
ATOM	2442	CA	LEU	358	6.117	19.306	11.116	1.00	10.73
ATOM	2443	CB	LEU	358	8.067	18.333	8.916	1.00	17.06
ATOM	2444	CG	LEU	358	4.616	19.120	8.647	1.00	11.17
ATOM	2445	CD1	LEU	358	5.016	20.331	8.613	1.00	11.13
ATOM	2446	CD2	LEU	358	5.011	19.111	10.617	1.00	11.01
ATOM	2447	C	LEU	358	7.016	18.111	11.111	1.00	19.69
ATOM	2448	O	LEU	358	7.118	17.111	11.111	1.00	19.43
ATOM	2449	N	PRO	359	8.111	18.111	11.111	1.00	19.49
ATOM	2450	CA	PRO	359	6.119	18.471	11.667	1.00	19.69
ATOM	2451	CB	PRO	359	6.118	17.111	11.111	1.00	19.78
ATOM	2452	CG	PRO	359	10.117	18.971	11.111	1.00	11.11
ATOM	2453	CD	PRO	359	10.111	18.111	11.111	1.00	11.11
ATOM	2454	C	PRO	359	10.111	17.111	11.111	1.00	18.11
ATOM	2455	O	PRO	359	10.111	16.111	14.111	1.00	16.11
ATOM	2456	N	VAL	360	8.111	18.111	11.111	1.00	17.80
ATOM	2457	CA	VAL	360	10.117	18.111	11.111	1.00	17.78
ATOM	2458	CB	VAL	360	10.114	20.111	11.111	1.00	16.11
ATOM	2459	CG1	VAL	360	10.116	21.111	11.111	1.00	15.89
ATOM	2460	CG2	VAL	360	11.117	21.111	14.111	1.00	16.11
ATOM	2461	C	VAL	360	9.119	18.111	11.111	1.00	17.81
ATOM	2462	O	VAL	360	8.112	18.111	11.111	1.00	16.42
ATOM	2463	N	THR	361	11.110	18.111	17.111	1.00	18.43
ATOM	2464	CA	THR	361	8.114	17.111	11.111	1.00	19.14
ATOM	2465	CB	THR	361	10.116	15.111	11.111	1.00	23.11
ATOM	2466	CG1	THR	361	10.117	15.111	17.111	1.00	26.11
ATOM	2467	CG2	THR	361	8.111	15.111	14.111	1.00	27.11
ATOM	2468	C	THR	361	6.118	18.111	11.111	1.00	19.11
ATOM	2469	O	THR	361	10.112	14.111	14.111	1.00	17.11
ATOM	2470	N	VAL	362	8.119	17.111	2.114	1.00	17.11
ATOM	2471	CA	VAL	362	8.117	18.111	21.117	1.00	17.11
ATOM	2472	CB	VAL	362	7.113	17.111	2.118	1.00	16.11
ATOM	2473	CG1	VAL	362	7.115	18.111	24.116	1.00	15.11
ATOM	2474	CG2	VAL	362	6.112	17.111	21.118	1.00	14.11
ATOM	2475	C	VAL	362	10.111	18.111	21.110	1.00	14.11
ATOM	2476	O	VAL	362	10.113	18.111	21.119	1.00	16.11
ATOM	2477	N	ALA	363	10.111	17.111	21.111	1.00	17.11
ATOM	2478	CA	ALA	363	11.114	17.111	21.113	1.00	13.11
ATOM	2479	CB	ALA	363	12.116	17.111	21.112	1.00	20.11
ATOM	2480	C	ALA	363	13.111	18.111	21.117	1.00	18.11
ATOM	2481	O	ALA	363	14.112	18.111	21.113	1.00	17.11
ATOM	2482	N	ASP	364	11.119	18.111	21.112	1.00	16.11
ATOM	2483	CA	ASP	364	11.113	18.111	21.111	1.00	16.11
ATOM	2484	CB	ASP	364	11.111	18.111	18.114	1.00	15.11
ATOM	2485	CG	ASP	364	11.111	18.111	18.113	1.00	17.11
ATOM	2486	CD1	ASP	364	14.117	17.111	18.112	1.00	15.11
ATOM	2487	CD2	ASP	364	11.111	17.111	17.112	1.00	19.11
ATOM	2488	C	ASP	364	11.111	20.111	20.114	1.00	15.11
ATOM	2489	O	ASP	364	14.118	21.111	21.110	1.00	17.11
ATOM	2490	N	ILE	365	12.117	21.111	21.088	1.00	14.11
ATOM	2491	CA	ILE	365	12.111	21.111	21.111	1.00	16.11
ATOM	2492	CB	ILE	365	13.111	21.111	21.117	1.00	14.11

ATOM	2493	CG2	ILE	165	10.265	23.986	22.395	1.00	19.39
ATOM	2494	CG1	ILE	165	9.946	22.599	20.310	1.00	16.26
ATOM	2495	CD1	ILE	165	10.399	23.712	19.379	1.00	17.28
ATOM	2496	C	ILE	165	12.646	22.560	23.066	1.00	16.31
ATOM	2497	O	ILE	165	13.717	23.596	23.423	1.00	15.88
ATOM	2498	N	ALA	166	12.474	21.518	22.878	1.00	15.24
ATOM	2499	CA	ALA	166	12.888	21.849	22.160	1.00	15.66
ATOM	2500	CB	ALA	166	12.553	20.778	22.999	1.00	15.05
ATOM	2501	C	ALA	166	14.474	21.688	25.292	1.00	15.90
ATOM	2502	O	ALA	166	15.636	22.763	26.161	1.00	16.01
ATOM	2503	N	TYR	167	15.136	21.640	24.341	1.00	15.21
ATOM	2504	CA	TYR	167	16.596	21.093	24.747	1.00	15.10
ATOM	2505	CB	TYR	167	17.682	20.191	22.106	1.00	14.11
ATOM	2506	CG	TYR	167	18.557	20.270	22.837	1.00	15.47
ATOM	2507	CD1	TYR	167	19.564	19.782	21.255	1.00	15.21
ATOM	2508	CE1	TYR	167	20.881	19.830	21.492	1.00	16.91
ATOM	2509	CD2	TYR	167	19.060	20.811	21.651	1.00	17.23
ATOM	2510	CE2	TYR	167	20.428	20.868	21.580	1.00	17.96
ATOM	2511	C	TYR	167	21.150	20.171	21.306	1.00	16.29
ATOM	2512	OH	TYR	167	21.681	20.286	21.013	1.00	15.76
ATOM	2513	O	TYR	167	17.951	22.321	22.288	1.00	16.64
ATOM	2514	C	TYR	167	17.911	23.661	24.489	1.00	17.17
ATOM	2515	N	HIS	168	18.467	23.241	21.865	1.00	17.61
ATOM	2516	CA	HIS	168	19.811	24.511	21.611	1.00	19.11
ATOM	2517	CB	HIS	168	19.277	24.847	21.229	1.00	18.61
ATOM	2518	CG	HIS	168	19.970	24.217	21.114	1.00	19.41
ATOM	2519	CH1	HIS	168	19.608	23.014	19.499	1.00	19.64
ATOM	2520	NH1	HIS	168	18.341	24.437	19.690	1.00	20.14
ATOM	2521	CE1	HIS	168	19.677	23.376	19.775	1.00	20.29
ATOM	2522	NE2	HIS	168	17.662	22.694	19.587	1.00	20.38
ATOM	2523	C	HIS	168	19.360	25.316	21.661	1.00	20.01
ATOM	2524	O	HIS	168	17.047	26.500	21.936	1.00	21.88
ATOM	2525	N	THR	169	19.202	25.258	24.258	1.00	18.85
ATOM	2526	CA	THR	169	14.677	26.743	25.289	1.00	21.31
ATOM	2527	CB	THR	169	17.335	25.659	25.796	1.00	21.71
ATOM	2528	CG1	THR	169	18.114	25.904	24.758	1.00	22.19
ATOM	2529	CG2	THR	169	18.880	26.466	23.017	1.00	21.18
ATOM	2530	C	THR	169	19.638	26.231	26.474	1.00	22.56
ATOM	2531	O	THR	169	19.995	27.239	26.924	1.00	23.68
ATOM	2532	N	ALA	170	19.154	25.100	24.918	1.00	21.27
ATOM	2533	CA	ALA	170	17.078	25.078	24.051	1.00	23.02
ATOM	2534	CB	ALA	170	17.481	23.440	24.372	1.00	22.74
ATOM	2535	C	ALA	170	18.322	25.913	27.752	1.00	24.33
ATOM	2536	O	ALA	170	18.775	26.194	28.593	1.00	24.38
ATOM	2537	N	ALA	171	18.862	25.744	26.548	1.00	24.54
ATOM	2538	CA	ALA	171	20.050	26.480	26.115	1.00	26.15
ATOM	2539	CB	ALA	171	20.465	26.019	24.719	1.00	24.54
ATOM	2540	C	ALA	171	19.795	25.980	26.109	1.00	27.22
ATOM	2541	O	ALA	171	20.616	28.768	26.601	1.00	29.91
ATOM	2542	N	VAL	172	18.662	28.187	27.543	1.00	27.69
ATOM	2543	CA	VAL	172	18.299	29.796	27.473	1.00	28.62
ATOM	2544	CB	VAL	172	19.977	29.992	24.699	1.00	29.37
ATOM	2545	CG1	VAL	172	19.541	31.148	24.749	1.00	28.12
ATOM	2546	CG2	VAL	172	17.154	29.546	24.257	1.00	29.56
ATOM	2547	C	VAL	172	13.154	30.393	24.868	1.00	29.28
ATOM	2548	O	VAL	172	14.634	31.193	27.130	1.00	28.13
ATOM	2549	N	ARG	173	17.429	29.681	27.762	1.00	29.17
ATOM	2550	CA	ARG	173	17.295	30.433	27.128	1.00	29.87
ATOM	2551	CB	ARG	173	17.508	29.113	27.451	1.00	29.61
ATOM	2552	CG	ARG	173	17.379	29.371	31.437	1.00	28.17
ATOM	2553	CI	ARG	173	17.773	30.358	31.623	1.00	26.49
ATOM	2554	NH	ARG	173	14.370	30.463	31.024	1.00	24.14
ATOM	2555	ND	ARG	173	13.793	32.322	30.961	1.00	27.87
ATOM	2556	NH1	ARG	173	14.367	33.169	31.343	1.00	27.39
ATOM	2557	NH2	ARG	173	15.427	31.967	35.814	1.00	28.88
ATOM	2558	C	ARG	173	18.630	30.415	30.811	1.00	31.14
ATOM	2559	O	ARG	173	15.763	31.394	36.547	1.00	31.91
ATOM	2560	N	ARG	174	19.615	29.364	29.573	1.00	30.66
ATOM	2561	CA	ARG	174	20.748	29.743	30.177	1.00	31.18
ATOM	2562	CB	ARG	174	21.873	28.597	29.776	1.00	33.09
ATOM	2563	CG	ARG	174	21.388	27.121	30.267	1.00	33.83
ATOM	2564	C	ARG	174	22.537	26.117	30.119	1.00	33.71
ATOM	2565	NE	ARG	174	22.071	24.854	33.459	1.00	34.23
ATOM	2566	OE	ARG	174	21.519	24.133	32.965	1.00	33.78
ATOM	2567	NH1	ARG	174	21.129	24.423	29.411	1.00	36.75
ATOM	2568	NH2	ARG	174	21.141	23.819	29.656	1.00	36.84
ATOM	2569	C	ARG	174	21.152	31.968	29.313	1.00	35.11

ATOM	2576	O	ARG	374	22.160	31.780	30.496	1.00	36.00
ATOM	2577	N	GLY	375	21.371	31.388	28.439	1.00	35.42
ATOM	2578	CA	GLY	375	21.866	32.621	27.892	1.00	36.12
ATOM	2579	C	GLY	375	21.128	33.871	28.331	1.00	36.83
ATOM	2579	O	GLY	375	21.711	34.954	28.352	1.00	36.60
ATOM	2579	N	ALA	376	19.851	33.774	26.683	1.00	36.57
ATOM	2579	CA	ALA	376	19.017	34.851	26.114	1.00	37.33
ATOM	2579	CB	ALA	376	18.332	35.874	27.906	1.00	36.41
ATOM	2578	O	ALA	376	17.985	34.434	26.143	1.00	35.86
ATOM	2579	O	ALA	376	16.805	34.265	29.827	1.00	38.51
ATOM	2580	N	PFO	377	18.410	34.215	1.401	1.00	38.37
ATOM	2581	CD	PFO	377	19.789	34.359	31.901	1.00	38.55
ATOM	2582	CA	PFO	377	17.509	33.760	32.478	1.00	38.64
ATOM	2583	CB	PFO	377	18.474	35.389	32.586	1.00	39.17
ATOM	2584	CG	PFO	377	19.588	34.359	33.404	1.00	38.79
ATOM	2585	C	PFO	377	16.512	34.851	32.936	1.00	38.71
ATOM	2585	O	PFO	377	15.691	34.556	33.814	1.00	38.56
ATOM	2587	N	ASN	378	16.540	36.053	32.534	1.00	38.88
ATOM	2588	CA	ASN	378	15.681	37.120	32.707	1.00	39.81
ATOM	2589	CB	ASN	378	16.456	36.288	33.279	1.00	41.15
ATOM	2590	CG	ASN	378	17.136	37.389	34.481	1.00	41.16
ATOM	2591	CD1	ASN	378	16.759	36.168	35.503	1.00	42.12
ATOM	2592	ND1	ASN	378	18.631	36.918	34.266	1.00	42.85
ATOM	2593	C	ASN	378	14.838	37.801	31.540	1.00	39.91
ATOM	2594	O	ASN	378	14.373	38.734	31.541	1.00	42.79
ATOM	2595	N	CYS	379	14.634	36.380	30.541	1.00	38.10
ATOM	2596	CA	CYS	379	13.843	37.164	29.383	1.00	36.18
ATOM	2597	CB	CYS	379	14.581	38.356	28.683	1.00	36.66
ATOM	2598	SG	CYS	379	14.611	39.106	27.553	1.00	37.37
ATOM	2599	C	CYS	379	12.434	38.460	29.350	1.00	34.98
ATOM	2600	O	CYS	379	12.290	38.480	30.639	1.00	35.66
ATOM	2601	N	LEU	380	11.536	37.100	28.165	1.00	38.99
ATOM	2602	CA	LEU	380	10.292	36.411	28.597	1.00	32.87
ATOM	2603	CB	LEU	380	9.163	37.559	27.920	1.00	34.44
ATOM	2604	CG	LEU	380	7.810	36.130	27.743	1.00	34.49
ATOM	2605	CD1	LEU	380	7.243	36.600	29.091	1.00	36.11
ATOM	2606	CD2	LEU	380	8.333	37.110	27.124	1.00	36.04
ATOM	2607	C	LEU	380	10.435	37.380	27.333	1.00	32.33
ATOM	2608	O	LEU	380	10.635	37.336	26.140	1.00	31.37
ATOM	2609	N	LEU	381	10.477	34.730	27.721	1.00	30.46
ATOM	2610	CA	LEU	381	10.726	35.794	26.751	1.00	38.43
ATOM	2611	CB	LEU	381	11.683	34.730	27.416	1.00	38.30
ATOM	2612	CG	LEU	381	12.577	34.730	26.513	1.00	39.36
ATOM	2613	CD1	LEU	381	13.529	35.730	27.415	1.00	38.30
ATOM	2614	CD2	LEU	381	11.746	35.134	25.695	1.00	34.12
ATOM	2615	C	LEU	381	9.463	33.234	26.365	1.00	36.34
ATOM	2616	O	LEU	381	8.751	31.533	27.104	1.00	33.96
ATOM	2617	N	LEU	382	9.134	33.373	25.013	1.00	33.40
ATOM	2618	CA	LEU	382	8.036	31.706	24.436	1.00	36.12
ATOM	2619	CB	LEU	382	7.317	32.609	24.415	1.00	37.68
ATOM	2620	CG	LEU	382	6.333	33.635	23.955	1.00	39.10
ATOM	2621	CD1	LEU	382	7.132	34.714	24.751	1.00	33.94
ATOM	2622	CD2	LEU	382	5.667	34.344	23.773	1.00	33.46
ATOM	2623	C	LEU	382	9.532	30.459	24.745	1.00	24.37
ATOM	2624	O	LEU	382	9.435	30.499	23.973	1.00	24.72
ATOM	2625	N	ALA	383	7.333	33.323	23.027	1.00	24.02
ATOM	2626	CA	ALA	383	8.386	34.900	23.423	1.00	33.33
ATOM	2627	CB	ALA	383	8.331	32.955	24.503	1.00	23.02
ATOM	2628	C	ALA	383	7.157	32.530	23.567	1.00	23.94
ATOM	2629	O	ALA	383	6.916	32.116	23.017	1.00	23.69
ATOM	2630	N	ASP	384	7.167	32.365	23.331	1.00	23.39
ATOM	2631	CA	ASP	384	6.143	30.631	23.448	1.00	23.57
ATOM	2632	CB	ASP	384	6.873	28.833	23.825	1.00	23.26
ATOM	2633	CG	ASP	384	6.274	27.347	13.232	1.00	23.66
ATOM	2634	CD1	ASP	384	5.335	28.371	16.601	1.00	26.53
ATOM	2635	CD2	ASP	384	6.482	28.396	17.187	1.00	24.65
ATOM	2636	C	ASP	384	16.139	25.180	20.751	1.00	14.93
ATOM	2637	O	ASP	384	7.017	24.425	21.139	1.00	13.05
ATOM	2638	N	LEU	385	4.877	24.800	20.590	1.00	18.72
ATOM	2639	CA	LEU	385	4.504	23.358	20.710	1.00	14.65
ATOM	2640	CB	LEU	385	3.133	24.222	21.474	1.00	17.91
ATOM	2641	CG	LEU	385	3.087	23.376	22.901	1.00	18.98
ATOM	2642	CD1	LEU	385	1.716	23.965	22.439	1.00	19.13
ATOM	2643	CD2	LEU	385	4.162	22.498	23.533	1.00	16.92
ATOM	2644	C	LEU	385	4.462	23.012	19.246	1.00	20.97
ATOM	2645	O	LEU	385	3.705	23.596	18.461	1.00	21.82
ATOM	2646	N	LEU	386	5.203	22.517	18.341	1.00	14.96

ATOM	2647	CI	PRO	386	6.168	21.273	19.747	1.00	20.26
ATOM	2648	CA	PRO	386	5.416	21.554	17.466	1.00	19.86
ATOM	2649	CE	PRO	386	6.638	20.633	17.537	1.00	21.32
ATOM	2650	CG	PRO	386	6.511	20.061	18.921	1.00	20.75
ATOM	2651	C	PRO	386	4.184	20.846	16.965	1.00	19.67
ATOM	2652	O	PRO	386	7.167	20.679	17.586	1.00	19.34
ATOM	2653	N	PHE	387	4.301	20.477	15.647	1.00	19.25
ATOM	2654	CA	PHE	387	5.238	19.729	14.927	1.00	18.90
ATOM	2655	CB	PHE	387	3.820	19.249	13.580	1.00	20.09
ATOM	2656	CG	PHE	387	2.855	18.253	12.861	1.00	20.40
ATOM	2657	CD1	PHE	387	1.655	18.573	12.479	1.00	21.35
ATOM	2658	CD2	PHE	387	3.455	18.992	12.545	1.00	21.11
ATOM	2659	CE1	PHE	387	6.862	17.651	11.789	1.00	22.07
ATOM	2660	CE2	PHE	387	2.681	18.064	11.858	1.00	19.74
ATOM	2661	C2	PHE	387	1.175	18.394	11.478	1.00	21.80
ATOM	2662	C	PHE	387	2.685	18.551	15.741	1.00	19.09
ATOM	2663	O	PHE	387	1.435	17.729	16.743	1.00	17.03
ATOM	2664	N	MET	388	1.761	18.562	15.181	1.00	17.04
ATOM	2665	CA	MET	388	5.415	17.528	16.189	1.00	19.41
ATOM	2666	CB	MET	388	6.142	16.197	15.139	1.00	16.83
ATOM	2667	CG	MET	388	-0.431	17.155	16.144	1.00	19.70
ATOM	2668	SD	MET	388	-1.361	17.824	15.162	1.00	19.18
ATOM	2669	CE	MET	388	-1.889	17.199	14.685	1.00	21.01
ATOM	2670	C	MET	388	4.584	17.152	18.663	1.00	19.31
ATOM	2671	O	MET	388	7.729	17.154	18.625	1.00	19.91
ATOM	2672	N	ALA	389	1.520	17.376	18.788	1.00	17.51
ATOM	2673	CA	ALA	389	1.889	17.174	20.095	1.00	17.62
ATOM	2674	CB	ALA	389	4.178	16.174	20.134	1.00	16.11
ATOM	2675	C	ALA	389	6.764	16.848	20.985	1.00	17.04
ATOM	2676	O	ALA	389	8.897	17.681	22.211	1.00	17.43
ATOM	2677	N	TYR	390	-0.344	16.971	20.467	1.00	19.06
ATOM	2678	CA	TYR	390	-1.496	16.737	21.211	1.00	18.54
ATOM	2679	CB	TYR	390	-1.423	21.261	21.266	1.00	17.65
ATOM	2680	CG	TYR	390	-1.128	21.009	19.987	1.00	19.84
ATOM	2681	CD1	TYR	390	-2.157	21.466	19.157	1.00	21.00
ATOM	2682	CE1	TYR	390	-1.881	21.134	17.956	1.00	21.33
ATOM	2683	CE2	TYR	390	6.184	21.247	19.585	1.00	19.67
ATOM	2684	CH	TYR	390	5.477	23.895	18.180	1.00	20.83
ATOM	2685	CO	TYR	390	-0.566	21.126	17.179	1.00	21.64
ATOM	2686	OH	TYR	390	-0.261	20.905	16.094	1.00	20.80
ATOM	2687	C	TYR	390	-2.790	17.181	20.437	1.00	19.26
ATOM	2688	O	TYR	390	-3.765	20.039	20.076	1.00	18.43
ATOM	2689	N	ALA	391	-2.780	17.050	19.949	1.00	18.07
ATOM	2690	CA	ALA	391	-3.915	17.417	19.353	1.00	17.23
ATOM	2691	CB	ALA	391	-3.497	16.109	18.656	1.00	18.23
ATOM	2692	C	ALA	391	-5.112	17.258	20.177	1.00	17.86
ATOM	2693	O	ALA	391	-6.250	17.117	19.719	1.00	18.08
ATOM	2694	N	THR	392	-4.846	17.145	21.478	1.00	19.74
ATOM	2695	CA	THR	392	-5.401	17.052	22.474	1.00	19.08
ATOM	2696	CB	THR	392	-6.124	16.695	22.917	1.00	19.15
ATOM	2697	CG1	THR	392	-4.680	17.346	23.645	1.00	17.01
ATOM	2698	CG2	THR	392	-6.350	14.704	21.713	1.00	19.96
ATOM	2699	C	THR	392	-5.145	17.857	23.682	1.00	14.74
ATOM	2700	O	THR	392	-4.152	17.672	23.866	1.00	17.11
ATOM	2701	N	PRO	393	-6.689	14.315	24.515	1.00	19.96
ATOM	2702	CI	PRO	393	-7.351	14.791	24.353	1.00	17.31
ATOM	2703	CA	PRO	393	-4.110	14.090	25.696	1.00	19.25
ATOM	2704	CB	PRO	393	-7.349	14.309	26.398	1.00	19.39
ATOM	2705	CD	PRO	393	-5.296	14.436	25.243	1.00	19.27
ATOM	2706	C	PRO	393	-5.016	14.326	26.550	1.00	19.25
ATOM	2707	O	PRO	393	-3.883	14.855	26.964	1.00	19.74
ATOM	2708	N	GLY	394	-5.713	14.544	26.781	1.00	17.66
ATOM	2709	CA	GLY	394	-4.174	14.187	26.565	1.00	19.75
ATOM	2710	CB	GLY	394	-5.544	14.771	27.991	1.00	21.17
ATOM	2711	CG	GLY	394	-4.155	13.825	28.636	1.00	20.13
ATOM	2712	CH	GLY	394	-5.105	14.495	28.617	1.00	31.05
ATOM	2713	OH1	GLY	394	-4.687	11.644	27.777	1.00	35.69
ATOM	2714	OH2	GLY	394	-6.355	12.288	26.402	1.00	34.53
ATOM	2715	C	GLY	394	-3.529	14.117	27.988	1.00	17.93
ATOM	2716	O	GLY	394	6.132	14.286	27.835	1.00	17.60
ATOM	2717	N	GLN	395	-2.833	14.090	26.783	1.00	16.16
ATOM	2718	CA	GLN	395	-1.469	15.373	25.361	1.00	18.13
ATOM	2719	CB	GLN	395	-1.451	15.465	25.814	1.00	19.76
ATOM	2720	CG	GLN	395	-1.663	13.959	23.737	1.00	26.51
ATOM	2721	CH	GLN	395	-1.756	14.447	24.330	1.00	27.20
ATOM	2722	CD	GLN	395	-0.821	13.969	21.533	1.00	31.74
ATOM	2723	CE	GLN	395	-1.889	14.836	22.180	1.00	31.18

ATOM	2724	C	GLN	395	-0.812	17.342	25.348	1.00	16.31
ATOM	2725	O	GLN	395	0.394	17.448	25.560	1.00	15.19
ATOM	2726	N	ALA	396	-1.611	16.389	25.172	1.00	15.71
ATOM	2727	CA	ALA	396	-1.097	16.748	25.258	1.00	15.45
ATOM	2728	CB	ALA	396	-2.209	20.754	21.941	1.00	14.95
ATOM	2729	C	ALA	396	-0.552	19.995	26.665	1.00	15.89
ATOM	2730	O	ALA	396	0.225	20.548	26.842	1.00	15.31
ATOM	2731	N	PHE	397	-1.266	19.981	27.679	1.00	17.14
ATOM	2732	CA	PHE	397	-0.262	19.786	28.019	1.00	17.67
ATOM	2733	CB	PHE	397	-1.855	19.179	29.062	1.00	17.74
ATOM	2734	CG	PHE	397	-3.276	19.676	29.876	1.00	15.92
ATOM	2735	CD1	PHE	397	-3.351	20.885	29.608	1.00	17.98
ATOM	2736	CD2	PHE	397	-4.225	19.785	30.141	1.00	18.15
ATOM	2737	CE1	PHE	397	-4.491	21.311	29.112	1.00	20.21
ATOM	2738	CE2	PHE	397	-5.150	19.197	30.163	1.00	19.30
ATOM	2739	CZ	PHE	397	-5.284	20.485	29.591	1.00	20.13
ATOM	2740	C	HE	398	0.496	19.116	29.257	1.00	17.87
ATOM	2741	O	HE	398	1.297	19.710	29.467	1.00	18.64
ATOM	2742	N	GLU	398	0.628	17.887	28.296	1.00	18.09
ATOM	2743	CA	GLU	398	1.813	17.169	28.841	1.00	19.00
ATOM	2744	CB	GLU	398	1.612	18.691	28.111	1.00	22.86
ATOM	2745	CG	GLU	398	1.349	19.763	28.111	1.00	23.13
ATOM	2746	CI	GLU	398	1.100	18.246	29.106	1.00	31.00
ATOM	2747	OE1	GLU	398	1.140	18.603	29.808	1.00	32.97
ATOM	2748	OE2	GLU	398	1.114	18.604	29.808	1.00	34.49
ATOM	2749	C	GLU	398	1.147	17.740	29.114	1.00	17.86
ATOM	2750	O	GLU	398	4.129	18.864	28.702	1.00	17.51
ATOM	2751	N	ASN	399	2.126	18.145	26.977	1.00	17.51
ATOM	2752	CA	ASN	399	1.991	18.559	26.184	1.00	17.30
ATOM	2753	CB	ASN	399	1.145	18.695	24.606	1.00	17.51
ATOM	2754	CG	ASN	399	1.004	17.274	24.111	1.00	17.54
ATOM	2755	GD1	ASN	399	4.401	19.480	24.507	1.00	16.74
ATOM	2756	ND2	ASN	399	1.114	19.979	23.187	1.00	11.86
ATOM	2757	C	ASN	399	4.148	20.174	26.308	1.00	16.39
ATOM	2758	O	ASN	399	5.420	20.560	26.142	1.00	14.68
ATOM	2759	N	ALA	400	2.131	20.918	26.063	1.00	17.41
ATOM	2760	CA	ALA	400	2.461	21.314	27.403	1.00	17.58
ATOM	2761	CB	ALA	400	2.126	20.618	27.646	1.00	17.58
ATOM	2762	C	ALA	400	4.111	21.246	28.664	1.00	17.52
ATOM	2763	O	ALA	400	5.199	21.018	28.602	1.00	18.40
ATOM	2764	N	ALA	401	1.115	21.298	29.558	1.00	18.00
ATOM	2765	CA	ALA	401	4.619	21.152	30.825	1.00	17.86
ATOM	2766	CB	ALA	401	1.851	21.085	31.698	1.00	17.14
ATOM	2767	C	ALA	401	6.387	21.000	30.505	1.00	17.10
ATOM	2768	O	ALA	401	6.966	21.243	31.341	1.00	17.32
ATOM	2769	N	THR	402	6.343	21.004	29.565	1.00	17.15
ATOM	2770	CA	THR	402	5.114	19.604	29.559	1.00	17.30
ATOM	2771	CB	THR	402	7.111	18.579	28.130	1.00	17.19
ATOM	2772	OG1	THR	402	7.194	18.332	28.751	1.00	15.26
ATOM	2773	OG2	THR	402	9.169	18.761	27.621	1.00	17.10
ATOM	2774	C	THR	402	8.576	20.107	28.883	1.00	18.69
ATOM	2775	O	THR	402	9.660	21.954	29.380	1.00	18.32
ATOM	2776	N	VAL	403	1.963	21.075	18.114	1.00	18.13
ATOM	2777	CA	VAL	403	6.843	21.830	17.800	1.00	19.86
ATOM	2778	CB	VAL	403	8.313	23.416	16.771	1.00	20.58
ATOM	2779	CG1	VAL	403	9.311	21.107	19.600	1.00	21.49
ATOM	2780	CG2	VAL	403	7.127	21.190	19.144	1.00	22.04
ATOM	2781	C	VAL	403	8.346	23.901	18.100	1.00	21.59
ATOM	2782	O	VAL	403	9.335	24.761	16.160	1.00	21.71
ATOM	2783	N	MET	404	1.811	23.999	19.167	1.00	21.27
ATOM	2784	CA	MET	404	7.819	24.645	18.980	1.00	21.55
ATOM	2785	CB	MET	404	8.132	24.913	17.181	1.00	20.11
ATOM	2786	CG	MET	404	1.311	25.563	19.167	1.00	30.04
ATOM	2787	SD	MET	404	3.514	27.411	19.151	1.00	34.43
ATOM	2788	CE	MET	404	1.816	27.835	11.673	1.00	31.59
ATOM	2789	C	MET	404	1.912	24.471	21.501	1.00	23.54
ATOM	2790	O	MET	404	3.619	25.335	22.163	1.00	21.00
ATOM	2791	N	ARG	405	3.988	23.129	22.953	1.00	20.56
ATOM	2792	CA	ARG	405	3.998	23.739	23.093	1.00	21.24
ATOM	2793	CB	ARG	405	3.817	21.254	23.303	1.00	18.71
ATOM	2794	CG	ARG	405	6.471	20.900	23.073	1.00	19.01
ATOM	2795	CI	ARG	405	8.506	19.576	24.121	1.00	18.69
ATOM	2796	NE	ARG	405	7.157	19.145	25.399	1.00	21.52
ATOM	2797	CZ	ARG	405	6.430	18.474	24.199	1.00	21.83
ATOM	2798	NH1	ARG	405	6.717	19.139	23.115	1.00	24.18
ATOM	2799	NH2	ARG	405	5.161	18.189	24.009	1.00	20.27
ATOM	2800	C	ARG	405	11.299	17.718	23.418	1.00	11.10

ATOM	2801	O	ARG	405	12.385	22.004	33.144	1.00	20.18
ATOM	2802	N	ALA	406	11.465	21.065	31.097	1.00	21.02
ATOM	2803	CA	ALA	406	12.734	23.271	30.421	1.00	21.30
ATOM	2804	CB	ALA	406	12.625	22.841	28.961	1.00	22.53
ATOM	2805	C	ALA	406	13.186	24.735	30.421	1.00	24.17
ATOM	2806	O	ALA	406	14.231	21.051	30.182	1.00	24.00
ATOM	2807	N	GLY	407	12.298	29.616	30.950	1.00	21.29
ATOM	2808	CA	GLY	407	12.671	27.017	31.083	1.00	22.57
ATOM	2809	C	GLY	407	11.735	28.001	30.429	1.00	27.36
ATOM	2810	O	GLY	407	11.841	29.224	30.532	1.00	27.55
ATOM	2811	N	ALA	408	10.825	27.551	29.595	1.00	23.27
ATOM	2812	CA	ALA	408	9.892	28.421	28.130	1.00	27.48
ATOM	2813	CB	ALA	408	9.114	27.654	27.771	1.00	29.62
ATOM	2814	C	ALA	408	8.928	29.058	29.415	1.00	29.38
ATOM	2815	O	ALA	408	8.692	28.441	30.144	1.00	27.43
ATOM	2816	N	ASN	409	8.450	30.221	29.662	1.00	27.03
ATOM	2817	CA	ASN	409	7.539	30.941	30.414	1.00	27.18
ATOM	2818	CB	ASN	409	7.971	31.411	30.612	1.00	28.38
ATOM	2819	CG	ASN	409	9.327	31.191	31.154	1.00	28.70
ATOM	2820	GLN	ASN	409	9.551	31.114	32.134	1.00	28.40
ATOM	2821	ND	ASN	409	10.241	30.141	30.111	1.00	27.34
ATOM	2822	O	ASN	409	8.154	30.991	29.113	1.00	26.67
ATOM	2823	C	ASN	409	7.150	31.211	30.561	1.00	29.16
ATOM	2824	N	MET	410	6.114	30.161	28.115	1.00	24.31
ATOM	2825	CA	MET	410	4.853	30.211	27.111	1.00	23.64
ATOM	2826	CB	MET	410	4.549	30.171	27.119	1.00	26.31
ATOM	2827	CG	MET	410	3.744	30.111	26.118	1.00	21.39
ATOM	2828	SD	MET	410	3.036	31.011	25.115	1.00	31.31
ATOM	2829	CE	MET	410	2.737	31.611	27.112	1.00	31.75
ATOM	2830	E	MET	410	4.947	29.791	26.115	1.00	31.16
ATOM	2831	O	MET	410	6.009	29.491	26.115	1.00	31.34
ATOM	2832	N	VAL	411	3.796	29.311	26.111	1.00	31.10
ATOM	2833	CA	VAL	411	3.726	28.381	25.115	1.00	34.32
ATOM	2834	CB	VAL	411	3.045	27.061	25.112	1.00	31.67
ATOM	2835	CG1	VAL	411	2.615	26.241	24.111	1.00	31.37
ATOM	2836	CG2	VAL	411	3.998	26.211	26.114	1.00	31.51
ATOM	2837	C	VAL	411	2.930	26.901	23.115	1.00	29.37
ATOM	2838	O	VAL	411	1.903	26.611	24.117	1.00	31.33
ATOM	2839	N	LYS	412	3.177	26.111	22.619	1.00	32.34
ATOM	2840	CA	LYS	412	2.674	26.211	21.111	1.00	31.72
ATOM	2841	CB	LYS	412	1.638	30.111	20.611	1.00	32.39
ATOM	2842	CG	LYS	412	2.917	30.111	19.115	1.00	31.36
ATOM	2843	CD	LYS	412	3.715	31.811	18.118	1.00	27.53
ATOM	2844	CE	LYS	412	4.979	31.111	18.113	1.00	22.31
ATOM	2845	NZ	LYS	412	4.638	30.611	18.112	1.00	26.34
ATOM	2846	C	LYS	412	3.124	36.111	20.619	1.00	29.26
ATOM	2847	O	LYS	412	2.839	37.011	20.106	1.00	27.73
ATOM	2848	N	ILE	413	0.179	28.110	20.240	1.00	33.60
ATOM	2849	CA	ILE	413	0.212	27.112	19.117	1.00	36.66
ATOM	2850	CB	ILE	413	-0.718	16.211	23.215	1.00	26.12
ATOM	2851	CG2	ILE	413	0.978	25.112	21.219	1.00	26.91
ATOM	2852	CG1	ILE	413	-1.751	27.211	21.010	1.00	38.28
ATOM	2853	CD1	ILE	413	-2.796	26.416	21.810	1.00	34.14
ATOM	2854	C	ILE	413	-0.580	25.711	18.212	1.00	37.66
ATOM	2855	O	ILE	413	-1.151	26.111	18.114	1.00	34.32
ATOM	2856	N	GLU	414	-0.615	25.111	17.118	1.00	29.05
ATOM	2857	CA	GLU	414	-1.116	25.411	15.918	1.00	30.52
ATOM	2858	CB	GLU	414	-0.369	25.111	14.717	1.00	31.51
ATOM	2859	CG	GLU	414	0.314	25.111	14.517	1.00	32.37
ATOM	2860	CD	GLU	414	1.515	26.111	13.416	1.00	33.72
ATOM	2861	OE1	GLU	414	0.361	26.211	12.518	1.00	32.10
ATOM	2862	OE2	GLU	414	0.432	25.111	10.318	1.00	32.16
ATOM	2863	N	GLU	414	-2.515	26.111	13.817	1.00	32.16
ATOM	2864	C	GLU	414	-2.947	25.111	16.211	1.00	33.34
ATOM	2865	N	GLY	415	-3.671	25.111	15.418	1.00	32.73
ATOM	2866	CA	GLY	415	-5.617	25.111	15.311	1.00	33.14
ATOM	2867	C	GLY	415	-6.074	26.111	15.713	1.00	32.14
ATOM	2868	O	GLY	415	-5.744	25.411	16.316	1.00	31.25
ATOM	2869	N	GLY	416	-7.327	25.111	15.111	1.00	31.33
ATOM	2870	CA	GLY	416	-8.581	25.111	15.116	1.00	34.16
ATOM	2871	C	GLY	416	-9.369	25.111	16.110	1.00	35.11
ATOM	2872	O	GLY	416	-8.971	25.111	17.111	1.00	35.73
ATOM	2873	N	GLU	417	-10.651	26.111	16.314	1.00	34.21
ATOM	2874	CA	GLU	417	-11.723	26.111	17.210	1.00	34.91
ATOM	2875	CB	GLU	417	13.076	28.448	16.527	1.00	38.06
ATOM	2876	CG	GLU	417	13.709	29.815	15.511	1.00	44.11
ATOM	2877	C	GLU	417	14.411	30.111	17.815	1.00	46.11

ATOM	2878	GE1	GLU	417	-13.763	30.094	18.900	1.00	43.75
ATOM	2879	GE2	GLU	417	-15.624	30.457	17.793	1.00	43.44
ATOM	2880	C	GLU	417	-11.576	26.986	17.861	1.00	33.06
ATOM	2881	O	GLU	417	-11.971	26.778	19.008	1.00	31.36
ATOM	2882	N	TPP	418	-11.911	26.041	17.115	1.00	31.15
ATOM	2883	CA	TPP	418	-10.465	24.583	17.637	1.00	36.67
ATOM	2884	CB	TPP	418	-10.427	23.710	16.526	1.00	29.57
ATOM	2885	CG	TPP	418	-8.963	23.794	16.161	1.00	27.67
ATOM	2886	CD2	TPP	418	-7.939	22.968	16.666	1.00	27.03
ATOM	2887	CE2	TPP	418	-6.710	23.410	16.063	1.00	25.39
ATOM	2888	CE3	TPP	418	-7.456	21.901	17.575	1.00	23.44
ATOM	2889	CD1	TPP	418	-8.336	24.674	15.395	1.00	27.61
ATOM	2890	NE1	TPP	418	-7.055	24.449	15.211	1.00	23.85
ATOM	2891	CZ2	TPP	418	-5.471	22.917	16.353	1.00	24.66
ATOM	2892	CZ3	TPP	418	-6.618	21.313	17.843	1.00	24.48
ATOM	2893	CH2	TPP	418	-5.446	21.777	17.215	1.00	24.32
ATOM	2894	C	TPP	418	-9.970	24.568	18.810	1.00	29.99
ATOM	2895	O	TPP	418	-9.793	23.500	19.417	1.00	21.25
ATOM	2896	N	LEU	419	-9.258	25.661	19.111	1.00	26.73
ATOM	2897	CA	LEU	419	-8.243	25.477	20.215	1.00	26.77
ATOM	2898	CB	LEU	419	-6.451	26.771	18.309	1.00	29.59
ATOM	2899	CG	LEU	419	-6.019	25.313	18.372	1.00	26.51
ATOM	2900	CD1	LEU	419	-4.748	26.334	18.834	1.00	29.61
ATOM	2901	CD2	LEU	419	-5.659	24.568	19.468	1.00	23.97
ATOM	2902	C	LEU	419	-8.755	26.155	21.498	1.00	26.45
ATOM	2903	O	LEU	419	-8.051	26.412	22.507	1.00	23.45
ATOM	2904	N	VAL	420	-9.376	26.872	21.442	1.00	25.42
ATOM	2905	CA	VAL	420	-10.563	27.144	22.531	1.00	25.27
ATOM	2906	CB	VAL	420	-12.057	27.665	22.310	1.00	25.27
ATOM	2907	CG1	VAL	420	-12.701	28.438	23.619	1.00	25.70
ATOM	2908	CG2	VAL	420	-12.171	28.891	21.219	1.00	25.09
ATOM	2909	C	VAL	420	-10.433	26.701	23.897	1.00	24.44
ATOM	2910	O	VAL	420	-9.783	27.159	24.819	1.00	24.50
ATOM	2911	N	GLU	421	-13.041	25.520	23.342	1.00	33.25
ATOM	2912	CA	GLU	421	-11.009	24.635	24.099	1.00	33.68
ATOM	2913	CB	GLU	421	-11.859	23.301	24.654	1.00	36.62
ATOM	2914	CG	GLU	421	-11.745	22.350	24.825	1.00	30.68
ATOM	2915	CD	GLU	421	-12.603	21.291	22.828	1.00	31.30
ATOM	2916	OE1	GLU	421	-12.199	20.708	24.688	1.00	31.73
ATOM	2917	OE2	GLU	421	-13.693	21.036	26.129	1.00	36.59
ATOM	2918	C	GLU	421	-9.578	24.493	25.313	1.00	32.94
ATOM	2919	O	GLU	421	-9.320	24.496	26.711	1.00	31.48
ATOM	2920	N	THR	422	-8.680	24.079	24.602	1.00	31.91
ATOM	2921	CA	THR	422	-7.267	23.827	24.952	1.00	30.31
ATOM	2922	CB	THR	422	-6.456	23.462	23.692	1.00	31.24
ATOM	2923	CG1	THR	422	-7.015	22.383	23.703	1.00	30.43
ATOM	2924	CG2	THR	422	-4.991	23.311	24.032	1.00	30.51
ATOM	2925	C	THR	422	-6.634	25.342	25.625	1.00	31.57
ATOM	2926	O	THR	422	-5.871	24.416	26.591	1.00	30.09
ATOM	2927	N	VAL	423	-6.951	26.224	25.109	1.00	32.33
ATOM	2928	CA	VAL	423	-6.420	27.353	25.675	1.00	33.54
ATOM	2929	CB	VAL	423	-6.755	28.672	24.794	1.00	34.13
ATOM	2930	CG1	VAL	423	-8.107	29.455	25.437	1.00	34.13
ATOM	2931	CG2	VAL	423	-8.064	38.340	23.435	1.00	23.31
ATOM	2932	C	VAL	423	-6.973	27.899	27.074	1.00	34.57
ATOM	2933	O	VAL	423	-6.221	28.314	27.494	1.00	34.43
ATOM	2934	N	GLN	424	-6.286	27.354	27.231	1.00	34.53
ATOM	2935	CA	GLN	424	-4.910	27.376	28.329	1.00	35.23
ATOM	2936	CB	GLN	424	-10.479	27.387	28.138	1.00	36.09
ATOM	2937	CG	GLN	424	-11.083	26.347	27.189	1.00	39.30
ATOM	2938	CD	GLN	424	-12.604	28.143	27.319	1.00	31.02
ATOM	2939	OE1	GLN	424	-13.211	27.135	27.423	1.00	37.45
ATOM	2940	OE2	GLN	424	-13.293	25.733	27.123	1.00	33.16
ATOM	2941	C	GLN	424	-4.318	26.319	26.668	1.00	35.02
ATOM	2942	O	GLN	424	-7.978	27.225	29.477	1.00	23.19
ATOM	2943	N	MET	425	-8.216	25.349	29.104	1.00	21.47
ATOM	2944	CA	MET	425	-7.703	24.561	30.135	1.00	22.16
ATOM	2945	CB	MET	425	-8.063	23.155	29.699	1.00	22.27
ATOM	2946	CG	MET	425	-9.404	22.380	29.494	1.00	23.45
ATOM	2947	CD	MET	425	-9.516	21.223	29.103	1.00	24.90
ATOM	2948	CE	MET	425	-9.811	20.377	29.583	1.00	28.11
ATOM	2949	C	MET	425	-6.216	24.797	30.448	1.00	29.31
ATOM	2950	O	MET	425	-5.791	24.355	31.571	1.00	29.81
ATOM	2951	N	LEU	426	-5.436	25.172	29.463	1.00	26.27
ATOM	2952	CA	LEU	426	-3.999	25.315	29.695	1.00	26.83
ATOM	2953	CB	LEU	426	-3.291	25.674	29.366	1.00	26.83
ATOM	2954	CG	LEU	426	-3.787	24.441	29.536	1.00	26.83

ATOM	2955	CD1	LEU	426	-2.321	24.828	26.188	1.00	18.65
ATOM	2956	CD2	LEU	426	-1.642	23.764	28.344	1.00	18.65
ATOM	2957	C	LEU	426	-3.810	26.465	30.668	1.00	24.13
ATOM	2958	O	LEU	426	-2.852	26.411	31.550	1.00	23.47
ATOM	2959	N	THR	427	-4.631	27.498	30.505	1.00	27.30
ATOM	2960	CA	THR	427	-4.194	28.681	31.957	1.00	31.01
ATOM	2961	CB	THR	427	-5.494	29.685	30.957	1.00	31.69
ATOM	2962	OG1	THR	427	-5.486	30.105	29.605	1.00	34.44
ATOM	2963	CG2	THR	427	-5.665	30.903	31.868	1.00	34.25
ATOM	2964	C	THR	427	-4.754	29.346	32.831	1.00	31.38
ATOM	2965	O	THR	427	-5.902	29.605	33.646	1.00	31.14
ATOM	2966	N	GLU	428	-5.905	29.777	33.172	1.00	30.86
ATOM	2967	CA	GLU	428	-6.163	29.275	34.563	1.00	32.58
ATOM	2968	CB	GLU	428	-5.614	29.899	34.741	1.00	33.84
ATOM	2969	CG	GLU	428	-8.107	29.849	33.673	1.00	24.13
ATOM	2970	CD	GLU	428	-9.482	29.877	33.995	1.00	24.03
ATOM	2971	OE1	GLU	428	-10.963	29.145	34.438	1.00	30.36
ATOM	2972	OE2	GLU	428	-9.053	29.162	31.799	1.00	31.65
ATOM	2973	C	GLU	428	-5.786	29.399	35.154	1.00	32.72
ATOM	2974	O	GLU	428	-5.169	29.932	36.320	1.00	32.90
ATOM	2975	N	ARG	429	-4.714	29.816	34.296	1.00	31.30
ATOM	2976	CA	ARG	429	-5.779	29.871	34.753	1.00	27.80
ATOM	2977	CB	ARG	429	-5.772	29.894	33.844	1.00	26.60
ATOM	2978	CG	ARG	429	-4.194	29.771	34.106	1.00	25.42
ATOM	2979	CD	ARG	429	-4.872	29.832	31.064	1.00	21.31
ATOM	2980	NE	ARG	429	-6.012	29.771	31.771	1.00	20.15
ATOM	2981	CZ	ARG	429	-7.170	29.971	31.421	1.00	19.79
ATOM	2982	NH1	ARG	429	-7.996	31.805	32.157	1.00	19.16
ATOM	2983	NH2	ARG	429	-8.740	30.771	32.776	1.00	18.13
ATOM	2984	C	ARG	429	-7.770	29.432	34.321	1.00	18.76
ATOM	2985	O	ARG	429	-9.774	31.778	34.778	1.00	27.12
ATOM	2986	N	ALA	430	-5.735	29.771	34.990	1.00	19.34
ATOM	2987	CA	ALA	430	-6.660	29.494	35.109	1.00	19.49
ATOM	2988	CB	ALA	430	0.131	29.794	36.137	1.00	19.80
ATOM	2989	C	ALA	430	0.779	29.771	35.934	1.00	19.79
ATOM	2990	O	ALA	430	2.167	29.771	35.900	1.00	30.77
ATOM	2991	N	VAL	431	-0.109	29.664	35.656	1.00	29.07
ATOM	2992	CA	VAL	431	0.771	29.738	35.410	1.00	27.73
ATOM	2993	CB	VAL	431	0.779	29.431	36.771	1.00	27.78
ATOM	2994	CG1	VAL	431	1.075	29.738	36.407	1.00	27.45
ATOM	2995	CG2	VAL	431	0.648	29.738	35.137	1.00	28.90
ATOM	2996	C	VAL	431	-0.175	28.866	36.777	1.00	27.45
ATOM	2997	O	VAL	431	-1.331	28.750	39.794	1.00	27.15
ATOM	2998	N	PRO	432	0.779	29.436	36.460	1.00	26.79
ATOM	2999	CD	PRO	432	1.477	30.283	35.175	1.00	16.11
ATOM	3000	CA	PRO	432	0.157	31.115	39.817	1.00	36.19
ATOM	3001	CB	PRO	432	1.177	29.314	39.817	1.00	27.09
ATOM	3002	CG	PRO	432	2.367	31.452	39.152	1.00	19.77
ATOM	3003	C	PRO	432	0.177	30.775	38.175	1.00	34.09
ATOM	3004	C	PRO	432	1.377	29.337	37.775	1.00	24.44
ATOM	3005	N	VAL	433	-0.641	31.192	37.733	1.00	23.55
ATOM	3006	CA	VAL	433	-0.655	30.941	35.424	1.00	22.43
ATOM	3007	CB	VAL	433	-1.477	31.390	25.775	1.00	20.40
ATOM	3008	CG1	VAL	433	-1.477	31.443	31.171	1.00	31.36
ATOM	3009	CG2	VAL	433	-1.477	28.726	26.149	1.00	19.73
ATOM	3010	C	VAL	433	-0.677	29.030	24.990	1.00	24.13
ATOM	3011	O	VAL	433	-1.344	30.963	25.144	1.00	21.13
ATOM	3012	N	CYS	434	0.777	31.353	33.833	1.00	21.16
ATOM	3013	CA	CYS	434	0.777	32.844	22.829	1.00	26.10
ATOM	3014	CB	CYS	434	1.677	33.159	22.613	1.00	27.30
ATOM	3015	CG	CYS	434	1.967	41.323	21.170	1.00	23.12
ATOM	3016	C	CYS	434	-0.147	30.197	21.737	1.00	27.70
ATOM	3017	O	CYS	434	0.777	31.123	31.123	1.00	27.16
ATOM	3018	N	GLY	435	-1.477	31.843	31.013	1.00	23.59
ATOM	3019	CA	GLY	435	-2.777	29.793	19.843	1.00	27.29
ATOM	3020	C	GLY	435	-1.267	30.541	18.596	1.00	27.32
ATOM	3021	O	GLY	435	-0.137	31.111	18.679	1.00	26.82
ATOM	3022	N	HIS	436	-1.777	32.005	17.453	1.00	27.79
ATOM	3023	CA	HIS	436	-1.937	32.164	16.143	1.00	23.13
ATOM	3024	CB	HIS	436	0.117	31.154	16.173	1.00	23.29
ATOM	3025	CG	HIS	436	1.944	31.362	14.973	1.00	21.87
ATOM	3026	CD	HIS	436	0.833	31.643	13.813	1.00	23.18
ATOM	3027	NE1	HIS	436	2.298	30.533	14.913	1.00	28.22
ATOM	3028	CE1	HIS	436	2.876	31.110	13.775	1.00	29.12
ATOM	3029	NE2	HIS	436	2.046	31.888	13.043	1.00	27.13
ATOM	3030	C	HIS	436	-2.009	31.950	15.073	1.00	25.77
ATOM	3031	O	HIS	436	-2.777	31.813	14.775	1.00	27.47

ATOM	3032	N	LEU	437	-1.442	33.052	14.428	1.00	30.59
ATOM	3033	CA	LEU	437	-1.384	32.899	13.314	1.00	31.59
ATOM	3034	CB	LEU	437	-4.632	32.823	13.643	1.00	31.44
ATOM	3035	CG	LEU	437	-1.519	32.332	14.790	1.00	30.60
ATOM	3036	CD1	LEU	437	-1.611	34.351	11.065	1.00	30.46
ATOM	3037	CD2	LEU	437	-1.114	31.978	14.429	1.00	30.85
ATOM	3038	C	LEU	437	-2.101	31.507	12.015	1.00	32.51
ATOM	3039	H	LEU	437	-1.118	34.304	12.024	1.00	31.44
ATOM	3040	H	GLY	438	-3.709	31.154	10.898	1.00	34.06
ATOM	3041	CA	GLY	438	-2.005	33.187	9.006	1.00	35.62
ATOM	3042	C	GLY	438	-2.183	31.452	8.835	1.00	37.37
ATOM	3043	H	GLY	438	-2.396	31.400	9.141	1.00	37.17
ATOM	3044	H	LEU	439	-2.055	31.659	8.356	1.00	37.61
ATOM	3045	CA	LEU	439	-0.355	31.642	7.601	1.00	37.93
ATOM	3046	CB	LEU	439	0.823	32.310	6.550	1.00	40.15
ATOM	3047	CG	LEU	439	1.104	31.810	5.414	1.00	44.13
ATOM	3048	CD	LEU	439	1.064	31.410	4.501	1.00	47.93
ATOM	3049	CD1	LEU	439	1.839	31.086	5.113	1.00	48.74
ATOM	3050	C	LEU	439	0.433	33.719	8.117	1.00	44.30
ATOM	3051	C	LEU	439	1.119	33.911	8.192	1.00	46.50
ATOM	3052	H	THR	440	-0.301	33.615	9.110	1.00	39.46
ATOM	3053	CA	THR	440	0.167	33.710	9.147	1.00	38.91
ATOM	3054	CB	THR	440	-0.311	32.967	10.117	1.00	39.18
ATOM	3055	CG1	THR	440	-1.115	32.334	9.117	1.00	38.96
ATOM	3056	CG2	THR	440	-1.810	31.938	11.112	1.00	37.17
ATOM	3057	C	THR	440	1.118	32.617	9.111	1.00	38.59
ATOM	3058	C	THR	440	0.517	32.715	8.112	1.00	38.96
ATOM	3059	N	PRO	441	2.114	31.711	6.110	1.00	37.45
ATOM	3060	CA	PRO	441	3.111	31.716	10.112	1.00	37.19
ATOM	3061	CB	PRO	441	3.118	31.411	8.115	1.00	36.11
ATOM	3062	CG	PRO	441	4.111	31.113	7.116	1.00	36.17
ATOM	3063	CD	PRO	441	4.115	30.115	6.112	1.00	39.17
ATOM	3064	C	PRO	441	3.111	31.110	5.113	1.00	34.87
ATOM	3065	C	PRO	441	3.113	31.118	4.114	1.00	33.70
ATOM	3066	H	GLN	442	2.117	31.119	3.116	1.00	33.33
ATOM	3067	CA	GLN	442	2.113	31.111	2.116	1.00	31.20
ATOM	3068	C	GLN	442	1.111	31.111	1.116	1.00	31.14
ATOM	3069	CG	GLN	442	3.112	31.111	1.113	1.00	31.11
ATOM	3070	H	GLN	442	2.111	31.112	1.112	1.00	31.21
ATOM	3071	CD1	GLN	442	1.111	31.112	1.111	1.00	31.11
ATOM	3072	CD2	GLN	442	3.116	31.116	1.115	1.00	31.14
ATOM	3073	C	GLN	442	1.116	31.112	1.112	1.00	31.11
ATOM	3074	H	GLN	442	1.113	31.114	1.116	1.00	31.11
ATOM	3075	H	SER	443	0.110	31.118	1.115	1.00	31.11
ATOM	3076	CA	SER	443	-0.116	31.120	1.113	1.00	31.11
ATOM	3077	CB	SER	443	-1.111	31.111	1.111	1.00	31.11
ATOM	3078	CG	SER	443	-2.111	31.111	1.111	1.00	31.11
ATOM	3079	C	SER	443	-0.111	31.111	1.111	1.00	31.11
ATOM	3080	C	SER	443	-1.111	31.111	1.111	1.00	31.11
ATOM	3081	H	VAL	444	1.111	31.111	1.111	1.00	31.11
ATOM	3082	CA	VAL	444	1.111	31.111	1.111	1.00	31.11
ATOM	3083	CB	VAL	444	1.111	31.111	1.111	1.00	31.11
ATOM	3084	CD1	VAL	444	1.111	31.111	1.111	1.00	31.11
ATOM	3085	CD2	VAL	444	1.111	31.111	1.111	1.00	31.11
ATOM	3086	C	VAL	444	1.111	31.111	1.111	1.00	31.11
ATOM	3087	H	VAL	444	1.111	31.111	1.111	1.00	31.11
ATOM	3088	H	ASN	445	0.111	31.111	1.111	1.00	31.11
ATOM	3089	CA	ASN	445	0.112	31.111	1.111	1.00	31.11
ATOM	3090	CB	ASN	445	0.616	31.111	1.111	1.00	31.11
ATOM	3091	CG	ASN	445	2.111	31.111	1.111	1.00	31.11
ATOM	3092	CD1	ASN	445	2.863	31.111	1.111	1.00	31.11
ATOM	3093	CD2	ASN	445	2.563	31.111	1.111	1.00	31.11
ATOM	3094	C	ASN	445	-1.111	31.111	1.111	1.00	31.11
ATOM	3095	C	ASN	445	-1.111	31.111	1.111	1.00	31.11
ATOM	3096	H	ILE	446	-1.111	31.111	1.111	1.00	31.11
ATOM	3097	CA	ILE	446	-1.111	31.111	1.111	1.00	31.11
ATOM	3098	CB	ILE	446	-1.111	31.111	1.111	1.00	31.11
ATOM	3099	CD1	ILE	446	-1.111	31.111	1.111	1.00	31.11
ATOM	3100	CD2	ILE	446	-1.111	31.111	1.111	1.00	31.11
ATOM	3101	CG1	ILE	446	-1.111	31.111	1.111	1.00	31.11
ATOM	3102	CG2	ILE	446	-1.111	31.111	1.111	1.00	31.11
ATOM	3103	H	ILE	446	-1.111	31.111	1.111	1.00	31.11
ATOM	3104	N	PHE	447	-4.253	31.111	1.111	1.00	31.11
ATOM	3105	CA	PHE	447	-2.657	31.111	1.111	1.00	31.11
ATOM	3106	CB	PHE	447	-2.765	31.111	1.111	1.00	31.11
ATOM	3107	CG	PHE	447	-2.040	31.111	1.111	1.00	31.11
ATOM	3108	CD	PHE	447	-1.516	31.111	1.111	1.00	31.11
ATOM	3109	CE	PHE	447	-1.111	31.111	1.111	1.00	31.11

ATOM	3109	CD2	PHE	447	-1.617	26.921	5.282	1.00	41.49
ATOM	3110	CE1	PHE	447	-4.299	27.474	5.758	1.00	41.71
ATOM	3111	CE2	PHE	447	-2.040	27.304	6.557	1.00	41.93
ATOM	3112	CZ	PHE	447	-3.388	27.577	6.785	1.00	41.96
ATOM	3113	C	PHE	447	-2.110	24.948	0.873	1.00	42.00
ATOM	3114	O	PHE	447	-2.556	25.179	-0.111	1.00	42.68
ATOM	3115	N	GLY	448	-1.151	23.987	0.831	1.00	43.71
ATOM	3116	CA	GLY	448	-0.663	23.422	-0.418	1.00	45.97
ATOM	3117	C	GLY	448	0.556	24.128	-0.695	1.00	47.94
ATOM	3118	O	GLY	448	0.967	24.729	-1.844	1.00	48.71
ATOM	3119	N	GLY	449	1.110	25.076	0.371	1.00	49.19
ATOM	3120	CA	GLY	449	2.185	25.909	0.239	1.00	50.57
ATOM	3121	C	GLY	449	2.149	27.142	1.191	1.00	51.88
ATOM	3122	O	GLY	449	1.160	27.148	2.647	1.00	51.79
ATOM	3123	N	TYR	450	3.100	28.137	1.048	1.00	53.60
ATOM	3124	CA	TYR	450	2.936	29.311	1.921	1.00	53.60
ATOM	3125	CR	TYR	450	4.873	29.834	1.397	1.00	54.86
ATOM	3126	CG	TYR	450	5.035	28.137	1.095	1.00	55.77
ATOM	3127	CD1	TYR	450	5.709	27.339	1.331	1.00	55.77
ATOM	3128	CE1	TYR	450	6.151	26.490	1.996	1.00	56.63
ATOM	3129	CE2	TYR	450	5.677	28.410	4.431	1.00	55.80
ATOM	3130	CE3	TYR	450	5.871	27.134	5.113	1.00	56.13
ATOM	3131	CD	TYR	450	6.114	26.192	4.378	1.00	56.70
ATOM	3132	OH	TYR	450	6.903	25.119	5.008	1.00	56.70
ATOM	3133	C	TYR	450	2.136	30.493	1.178	1.00	58.14
ATOM	3134	O	TYR	450	3.006	31.165	0.315	1.00	58.48
ATOM	3135	N	LYS	451	1.001	30.015	1.311	1.00	58.14
ATOM	3136	CA	LYS	451	0.151	31.885	0.619	1.00	58.55
ATOM	3137	CB	LYS	451	-0.371	31.059	-0.189	1.00	57.18
ATOM	3138	CC	LYS	451	-0.310	29.987	-1.001	1.00	57.73
ATOM	3139	CD	LYS	451	-1.811	29.108	-1.601	1.00	58.81
ATOM	3140	CE	LYS	451	-1.112	27.840	-1.131	1.00	58.14
ATOM	3141	CF	LYS	451	-2.836	27.315	-1.731	1.00	58.14
ATOM	3142	C	LYS	451	-0.196	32.646	1.714	1.00	59.00
ATOM	3143	O	LYS	451	-0.331	32.116	1.849	1.00	58.15
ATOM	3144	N	VAL	452	-3.111	33.119	1.135	1.00	59.76
ATOM	3145	CA	VAL	452	-1.009	34.048	1.145	1.00	59.11
ATOM	3146	C	VAL	452	-0.845	36.187	1.607	1.00	59.60
ATOM	3147	CG1	VAL	452	-1.134	37.112	1.866	1.00	59.60
ATOM	3148	CG2	VAL	452	0.144	36.451	1.747	1.00	59.60
ATOM	3149	C	VAL	452	-0.215	34.991	1.314	1.00	59.19
ATOM	3150	O	VAL	452	-3.083	34.831	1.809	1.00	59.60
ATOM	3151	N	GLN	453	-2.836	34.114	1.771	1.00	59.60
ATOM	3152	CA	GLN	453	-4.158	34.058	4.164	1.00	59.41
ATOM	3153	CB	GLN	453	-4.307	33.344	5.334	1.00	59.34
ATOM	3154	CG	GLN	453	-4.104	31.734	4.906	1.00	59.41
ATOM	3155	CD	GLN	453	-5.111	31.338	4.268	1.00	57.19
ATOM	3156	OE1	GLN	453	-1.334	31.135	4.854	1.00	57.65
ATOM	3157	NE2	GLN	453	-3.111	30.614	1.948	1.00	57.74
ATOM	3158	C	GLN	453	-4.363	35.417	4.585	1.00	59.38
ATOM	3159	O	GLN	453	-4.737	36.155	4.774	1.00	59.54
ATOM	3160	N	SLY	454	-6.131	35.144	4.746	1.00	59.76
ATOM	3161	CA	SLY	454	-7.965	36.413	5.127	1.00	59.88
ATOM	3162	C	SLY	454	-7.927	37.165	1.940	1.00	59.46
ATOM	3163	O	SLY	454	-8.331	38.110	4.115	1.00	59.43
ATOM	3164	N	ARG	455	-7.967	36.155	1.731	1.00	59.60
ATOM	3165	CA	ARG	455	-7.150	37.371	1.539	1.00	61.00
ATOM	3166	CB	ARG	455	-7.981	36.155	6.283	1.00	61.00
ATOM	3167	CG	ARG	455	-5.933	37.000	6.110	1.00	61.33
ATOM	3168	CD	ARG	455	-5.111	38.001	5.100	1.00	61.11
ATOM	3169	NE	ARG	455	-4.111	38.009	-3.232	1.00	61.33
ATOM	3170	C	ARG	455	-3.007	38.117	-3.913	1.00	60.77
ATOM	3171	NH1	ARG	455	-3.111	37.115	-1.716	1.00	60.26
ATOM	3172	NH2	ARG	455	-1.111	38.135	-9.718	1.00	60.60
ATOM	3173	O	ARG	455	-9.969	37.112	1.337	1.00	61.33
ATOM	3174	C	ARG	455	-9.111	36.117	1.214	1.00	61.66
ATOM	3175	N	GLY	456	-9.611	38.117	1.432	1.00	61.93
ATOM	3176	CA	GLY	456	-11.111	38.116	1.379	1.00	64.13
ATOM	3177	C	GLY	456	-12.111	38.116	2.679	1.00	65.09
ATOM	3178	O	GLY	456	-11.111	38.116	3.538	1.00	63.11
ATOM	3179	N	ASP	457	-13.368	39.116	2.606	1.00	63.46
ATOM	3180	CA	ASP	457	-14.111	39.116	3.783	1.00	61.79
ATOM	3181	CB	ASP	457	-15.457	40.114	3.365	1.00	60.87
ATOM	3182	CG	ASP	457	-15.109	41.110	2.565	1.00	61.41
ATOM	3183	OD1	ASP	457	-14.541	42.117	3.095	1.00	61.49
ATOM	3184	OD2	ASP	457	-15.000	41.110	1.467	1.00	62.34
ATOM	3185	C	ASP	457	-13.474	39.116	5.011	1.00	65.55

ATOM	3186	O	ASP	457	-14.485	38.238	5.846	1.00	65.44
ATOM	3187	N	GLU	458	-14.782	37.035	3.936	1.00	65.17
ATOM	3188	CA	GLU	458	-15.122	35.838	4.611	1.00	64.76
ATOM	3189	CB	GLU	458	-15.460	34.726	3.583	1.00	65.72
ATOM	3190	CG	GLU	458	-15.856	33.692	3.194	1.00	67.79
ATOM	3191	CD	GLU	458	-16.221	32.760	2.149	1.00	68.91
ATOM	3192	OE1	GLU	458	-17.201	32.035	2.334	1.00	69.70
ATOM	3193	OE2	GLU	458	-15.568	31.135	3.013	1.00	69.17
ATOM	3194	C	GLU	458	-15.956	29.848	3.410	1.00	63.98
ATOM	3195	O	GLU	458	-14.111	28.121	6.611	1.00	62.71
ATOM	3196	N	ALA	459	-17.781	35.113	3.866	1.00	62.74
ATOM	3197	CA	ALA	459	-11.588	34.587	3.581	1.00	61.25
ATOM	3198	CB	ALA	459	-10.462	34.137	4.534	1.00	61.27
ATOM	3199	C	ALA	459	-11.153	32.863	6.571	1.00	60.06
ATOM	3200	O	ALA	459	-10.636	29.570	7.645	1.00	59.75
ATOM	3201	N	GLY	460	-11.392	33.119	6.211	1.00	58.46
ATOM	3202	CA	GLY	460	-11.023	32.116	7.083	1.00	57.23
ATOM	3203	C	GLY	460	-11.803	31.207	8.184	1.00	56.78
ATOM	3204	O	GLY	460	-11.229	28.175	8.403	1.00	56.07
ATOM	3205	N	ASP	461	-12.111	32.118	6.110	1.00	57.11
ATOM	3206	CA	ASP	461	-11.361	31.101	6.481	1.00	54.77
ATOM	3207	CB	ASP	461	-12.431	28.111	8.439	1.00	53.11
ATOM	3208	OD1	ASP	461	-12.783	26.812	8.136	1.00	53.18
ATOM	3209	OD2	ASP	461	-12.443	40.112	8.131	1.00	56.46
ATOM	3210	OD3	ASP	461	-12.343	30.812	8.131	1.00	56.49
ATOM	3211	C	ASP	461	-12.713	26.812	11.185	1.00	53.14
ATOM	3212	O	ASP	461	-12.991	26.712	11.481	1.00	53.11
ATOM	3213	N	GLN	462	-12.293	35.116	6.614	1.00	52.39
ATOM	3214	CA	GLN	462	-12.314	34.110	11.168	1.00	52.15
ATOM	3215	CB	GLN	462	-12.908	33.117	8.118	1.00	51.14
ATOM	3216	CG	GLN	462	-12.684	32.019	8.186	1.00	51.17
ATOM	3217	CE	GLN	462	-12.729	31.115	11.865	1.00	52.18
ATOM	3218	OE1	GLN	462	-12.930	31.115	11.184	1.00	51.16
ATOM	3219	NE2	GLN	462	-12.275	31.118	12.002	1.00	52.19
ATOM	3220	C	GLN	462	-12.767	24.117	11.118	1.00	51.18
ATOM	3221	O	GLN	462	-12.847	23.118	12.111	1.00	52.16
ATOM	3222	N	LEU	463	-10.819	35.117	3.116	1.00	51.14
ATOM	3223	CA	LEU	463	-9.537	35.112	11.419	1.00	50.11
ATOM	3224	CB	LEU	463	-8.478	36.116	11.117	1.00	51.13
ATOM	3225	CG	LEU	463	-8.036	35.117	8.111	1.00	52.12
ATOM	3226	CD1	LEU	463	-8.862	35.119	3.112	1.00	51.19
ATOM	3227	CD2	LEU	463	-9.505	33.111	8.112	1.00	51.11
ATOM	3228	C	LEU	463	-9.789	36.110	11.663	1.00	48.19
ATOM	3229	O	LEU	463	-9.162	36.115	11.678	1.00	49.10
ATOM	3230	N	LEU	464	-10.622	37.113	12.114	1.00	48.13
ATOM	3231	CA	LEU	464	-10.907	38.119	12.488	1.00	48.11
ATOM	3232	CB	LEU	464	-11.724	39.113	12.989	1.00	48.12
ATOM	3233	CG	LEU	464	-11.609	40.117	13.668	1.00	50.16
ATOM	3234	CD1	LEU	464	-12.492	41.116	12.960	1.00	50.11
ATOM	3235	CD2	LEU	464	-12.017	40.117	13.116	1.00	49.10
ATOM	3236	C	LEU	464	-11.697	37.115	14.582	1.00	46.13
ATOM	3237	O	LEU	464	-11.471	37.110	15.112	1.00	46.11
ATOM	3238	N	SER	465	-12.626	36.117	14.165	1.00	45.13
ATOM	3239	CA	SER	465	-13.452	36.114	13.015	1.00	44.16
ATOM	3240	CB	SER	465	-14.506	35.115	14.335	1.00	45.10
ATOM	3241	OG	SER	465	-15.284	41.111	15.115	1.00	45.16
ATOM	3242	C	SER	465	-12.511	35.116	15.110	1.00	41.13
ATOM	3243	O	SER	465	-12.702	35.112	15.119	1.00	41.10
ATOM	3244	N	ASP	466	-11.700	34.115	15.135	1.00	41.12
ATOM	3245	CA	ASP	466	-10.786	33.113	15.337	1.00	40.19
ATOM	3246	CB	ASP	466	-9.841	32.112	14.817	1.00	40.16
ATOM	3247	CG	ASP	466	-10.789	31.113	14.013	1.00	41.124
ATOM	3248	OD1	ASP	466	-11.631	30.113	14.614	1.00	41.14
ATOM	3249	OD2	ASP	466	-12.418	31.116	12.912	1.00	41.17
ATOM	3250	C	ASP	466	-9.885	34.115	14.817	1.00	39.159
ATOM	3251	O	ASP	466	-9.511	33.780	17.910	1.00	37.189
ATOM	3252	N	ALA	467	-9.471	35.110	14.409	1.00	37.134
ATOM	3253	CA	ALA	467	-8.936	36.112	17.216	1.00	36.159
ATOM	3254	CB	ALA	467	-8.132	37.116	16.413	1.00	35.134
ATOM	3255	C	ALA	467	-7.114	36.117	19.511	1.00	34.111
ATOM	3256	O	ALA	467	-7.717	35.477	18.616	1.00	34.159
ATOM	3257	N	LEU	468	-10.516	37.116	18.419	1.00	34.119
ATOM	3258	CA	LEU	468	-11.283	36.115	19.643	1.00	34.113
ATOM	3259	CB	LEU	468	-11.616	38.119	19.214	1.00	34.153
ATOM	3260	CG	LEU	468	-12.511	37.115	18.713	1.00	33.168
ATOM	3261	CD1	LEU	468	-12.811	36.116	18.962	1.00	40.141
ATOM	3262	CD2	LEU	468	-12.116	39.111	19.484	1.00	34.111

ATOM	3263	C	LEU	468	-11.559	36.704	20.452	1.00	35.67
ATOM	3264	O	LEU	468	-11.565	36.732	21.683	1.00	36.76
ATOM	3265	N	ALA	468	-11.741	35.099	19.747	1.00	34.59
ATOM	3266	CA	ALA	468	-12.077	33.810	20.387	1.00	34.17
ATOM	3267	CP	ALA	468	-12.870	32.768	19.721	1.00	33.45
ATOM	3268	C	ALA	468	-10.817	33.370	21.169	1.00	34.41
ATOM	3269	O	ALA	468	-11.181	33.002	22.357	1.00	35.87
ATOM	3270	N	LEU	470	-8.771	33.717	20.685	1.00	31.59
ATOM	3271	CA	LEU	470	-8.534	32.911	21.426	1.00	34.13
ATOM	3272	CE	LEU	470	-7.797	31.981	20.716	1.00	32.35
ATOM	3273	CC	LEU	470	-7.171	32.630	19.717	1.00	32.57
ATOM	3274	CD1	LEU	470	-6.066	32.281	18.490	1.00	31.63
ATOM	3275	CD2	LEU	470	-7.139	30.589	19.807	1.00	32.13
ATOM	3276	C	LEU	470	-8.347	32.816	22.627	1.00	34.20
ATOM	3277	O	LEU	470	-8.061	32.347	23.721	1.00	34.75
ATOM	3278	N	GLU	471	-8.716	31.119	22.417	1.00	33.48
ATOM	3279	CA	GLU	471	-8.832	30.068	22.499	1.00	33.79
ATOM	3280	CE	GLU	471	-8.534	31.206	22.768	1.00	34.75
ATOM	3281	CG	GLU	471	-8.645	28.113	24.086	1.00	35.68
ATOM	3282	CH	GLU	471	-8.661	29.990	21.761	1.00	36.27
ATOM	3283	CF1	GLU	471	-10.008	40.012	22.081	1.00	36.43
ATOM	3284	CF2	GLU	471	-10.008	40.884	21.811	1.00	35.41
ATOM	3285	C	GLU	471	-8.736	31.276	24.812	1.00	37.42
ATOM	3286	C	GLU	471	-8.732	31.773	25.783	1.00	38.79
ATOM	3287	N	ALA	472	-10.001	35.134	24.122	1.00	31.45
ATOM	3288	CA	ALA	472	-11.072	33.131	25.109	1.00	32.61
ATOM	3289	CB	ALA	472	-11.149	35.129	24.706	1.00	32.91
ATOM	3290	C	ALA	472	-11.108	34.117	25.001	1.00	32.33
ATOM	3291	C	ALA	472	-11.109	33.100	25.165	1.00	31.64
ATOM	3292	N	ALA	472	-10.102	33.106	25.251	1.00	31.70
ATOM	3293	CA	ALA	472	-11.107	31.100	25.843	1.00	31.14
ATOM	3294	CB	ALA	472	-11.102	30.083	24.741	1.00	30.14
ATOM	3295	C	ALA	472	-10.102	31.106	26.011	1.00	32.68
ATOM	3296	C	ALA	472	-11.103	31.103	27.821	1.00	33.10
ATOM	3297	N	GLY	473	-11.101	32.108	26.792	1.00	32.17
ATOM	3298	CA	GLY	473	-11.102	31.101	27.074	1.00	31.44
ATOM	3299	C	GLY	473	-11.101	31.101	27.181	1.00	32.77
ATOM	3300	C	GLY	473	-11.107	32.106	27.016	1.00	32.18
ATOM	3301	N	ALA	473	-11.101	31.103	26.956	1.00	31.78
ATOM	3302	CA	ALA	473	-11.106	32.106	26.189	1.00	30.82
ATOM	3303	CB	ALA	473	-11.100	33.102	26.609	1.00	32.72
ATOM	3304	C	ALA	473	-11.100	31.103	26.608	1.00	30.14
ATOM	3305	C	ALA	473	-11.106	30.106	26.166	1.00	28.66
ATOM	3306	N	GLN	476	-11.947	31.114	26.124	1.00	30.90
ATOM	3307	CA	GLN	476	-11.110	30.018	26.533	1.00	31.42
ATOM	3308	CB	GLN	476	-11.144	30.102	27.796	1.00	32.13
ATOM	3309	CG	GLN	476	-11.105	31.106	28.340	1.00	34.93
ATOM	3310	CD	GLN	476	-11.108	32.103	30.224	1.00	36.68
ATOM	3311	OE1	GLN	476	-11.125	33.102	30.781	1.00	38.19
ATOM	3312	NE2	GLN	476	-10.103	34.103	30.721	1.00	37.14
ATOM	3313	C	GLN	476	-11.561	32.106	26.468	1.00	31.19
ATOM	3314	O	GLN	476	-11.171	33.149	26.580	1.00	30.99
ATOM	3315	N	LEU	477	-11.120	30.105	24.379	1.00	30.91
ATOM	3316	CA	LEU	477	-11.565	27.105	23.247	1.00	29.13
ATOM	3317	CB	LEU	477	-11.113	30.105	23.395	1.00	31.15
ATOM	3318	CG	LEU	477	-11.765	29.103	24.121	1.00	31.99
ATOM	3319	CD1	LEU	477	-11.112	31.113	24.410	1.00	32.13
ATOM	3320	CD2	LEU	477	-11.117	30.107	23.216	1.00	31.54
ATOM	3321	C	LEU	477	-11.035	30.145	21.911	1.00	30.13
ATOM	3322	O	LEU	477	-11.711	31.110	21.363	1.00	30.76
ATOM	3323	N	LEU	477	-0.820	31.139	20.910	1.00	32.62
ATOM	3324	CA	LEU	477	-1.253	30.109	19.511	1.00	30.88
ATOM	3325	CB	LEU	477	-0.607	31.103	19.118	1.00	30.65
ATOM	3326	CG	LEU	477	-3.160	30.103	19.743	1.00	30.03
ATOM	3327	CH1	LEU	477	-3.451	29.103	18.511	1.00	30.10
ATOM	3328	CH2	LEU	477	-4.367	28.171	17.167	1.00	30.79
ATOM	3329	C	LEU	478	-0.227	31.001	19.463	1.00	30.90
ATOM	3330	O	LEU	478	-0.424	30.147	18.529	1.00	30.77
ATOM	3331	N	VAL	479	-0.684	30.120	17.433	1.00	30.09
ATOM	3332	CA	VAL	479	-0.862	29.107	16.432	1.00	30.80
ATOM	3333	CB	VAL	479	-1.033	28.132	15.416	1.00	30.71
ATOM	3334	CG1	VAL	479	-1.957	27.103	15.264	1.00	30.57
ATOM	3335	CG2	VAL	479	-2.808	26.137	14.771	1.00	30.14
ATOM	3336	C	VAL	479	-0.174	27.200	15.043	1.00	30.10
ATOM	3337	O	VAL	479	-0.453	26.176	14.769	1.00	30.17
ATOM	3338	N	LEU	480	-0.782	27.234	14.231	1.00	30.10
ATOM	3339	CA	LEU	480	-0.577	27.251	13.800	1.00	30.10

ATOM	3340	CB	LEU	480	-1.029	38.574	12.627	1.00	39.15
ATOM	3341	CG	LEU	480	-2.367	38.841	13.416	1.00	39.59
ATOM	3342	CD1	LEU	480	-2.851	40.220	13.071	1.00	39.86
ATOM	3343	CD2	LEU	480	-3.340	37.766	12.098	1.00	40.86
ATOM	3344	C	LEU	480	0.816	37.067	11.884	1.00	38.27
ATOM	3345	O	LEU	480	1.818	37.776	11.918	1.00	38.07
ATOM	3346	N	GLU	481	0.648	36.115	10.931	1.00	38.45
ATOM	3347	CA	GLU	481	1.678	37.846	9.965	1.00	38.65
ATOM	3348	CB	GLU	481	2.287	37.469	10.204	1.00	38.38
ATOM	3349	CG	GLU	481	3.587	34.243	9.454	1.00	39.75
ATOM	3350	CD	GLU	481	4.111	31.831	9.611	1.00	38.78
ATOM	3351	OE1	GLU	481	4.045	31.300	10.741	1.00	38.25
ATOM	3352	OE2	GLU	481	4.595	31.266	8.605	1.00	38.84
ATOM	3353	C	GLU	481	1.121	37.914	8.546	1.00	38.06
ATOM	3354	O	GLU	481	0.152	37.234	8.209	1.00	37.10
ATOM	3355	N	CYS	482	1.768	36.737	7.919	1.00	41.00
ATOM	3356	CA	CYS	482	1.384	36.918	6.127	1.00	41.88
ATOM	3357	CB	CYS	482	1.841	37.731	5.490	1.00	41.85
ATOM	3358	CG	CYS	482	3.650	34.520	5.444	1.00	44.80
ATOM	3359	C	CYS	482	-0.110	37.139	4.147	1.00	41.43
ATOM	3360	N	CYS	482	-0.818	36.267	5.664	1.00	44.41
ATOM	3361	N	VAL	483	-0.584	37.327	4.574	1.00	40.15
ATOM	3362	CA	VAL	483	-1.880	37.640	4.411	1.00	41.40
ATOM	3363	CB	VAL	483	-2.601	36.573	7.781	1.00	41.80
ATOM	3364	CG1	VAL	483	-2.189	37.635	8.770	1.00	41.54
ATOM	3365	CG2	VAL	483	-4.187	34.643	7.800	1.00	46.49
ATOM	3366	C	VAL	483	-2.017	40.140	7.911	1.00	46.81
ATOM	3367	O	VAL	483	-1.243	40.998	8.204	1.00	46.81
ATOM	3368	N	PRO	484	-3.111	40.443	1.041	1.00	46.61
ATOM	3369	CA	PRO	484	-4.119	38.629	3.577	1.00	50.76
ATOM	3370	CB	PRO	484	-3.143	41.812	3.541	1.00	48.54
ATOM	3371	CG	PRO	484	-4.439	41.797	7.787	1.00	49.80
ATOM	3372	CD	PRO	484	-5.119	40.670	4.181	1.00	50.37
ATOM	3373	C	PRO	484	-3.138	41.856	5.666	1.00	49.46
ATOM	3374	O	PRO	484	-3.842	40.701	6.646	1.00	49.10
ATOM	3375	N	VAL	485	-2.317	40.864	3.104	1.00	49.76
ATOM	3376	CA	VAL	485	-2.184	41.941	6.567	1.00	49.50
ATOM	3377	CB	VAL	485	-1.456	40.159	5.817	1.00	47.81
ATOM	3378	CG1	VAL	485	-1.169	40.181	7.103	1.00	48.88
ATOM	3379	CG2	VAL	485	-0.164	40.701	5.377	1.00	49.01
ATOM	3380	C	VAL	485	-3.530	47.415	7.034	1.00	50.17
ATOM	3381	O	VAL	485	-3.732	46.505	8.245	1.00	49.86
ATOM	3382	N	GLU	486	-4.454	45.715	6.124	1.00	50.09
ATOM	3383	CA	GLU	486	-5.784	46.183	6.104	1.00	50.38
ATOM	3384	CB	GLU	486	-6.644	46.421	5.254	1.00	51.37
ATOM	3385	CG	GLU	486	-6.277	41.568	4.041	1.00	52.69
ATOM	3386	CD	GLU	486	-5.076	46.115	3.077	1.00	53.84
ATOM	3387	OE1	GLU	486	-6.120	43.296	2.477	1.00	54.68
ATOM	3388	OE2	GLU	486	-4.096	46.365	3.074	1.00	52.54
ATOM	3389	C	GLU	486	-6.503	45.228	7.156	1.00	56.07
ATOM	3390	O	GLU	486	-7.504	43.656	8.393	1.00	48.05
ATOM	3391	N	LEU	487	-6.215	43.936	7.330	1.00	48.68
ATOM	3392	CA	LEU	487	-6.837	41.938	8.187	1.00	50.79
ATOM	3393	CB	LEU	487	-6.709	41.547	7.553	1.00	51.38
ATOM	3394	CG	LEU	487	-7.813	43.529	7.371	1.00	51.57
ATOM	3395	CD1	LEU	487	-7.551	39.259	7.099	1.00	51.76
ATOM	3396	CD2	LEU	487	-7.875	41.251	9.161	1.00	51.45
ATOM	3397	C	LEU	487	-6.158	41.940	9.556	1.00	49.77
ATOM	3398	O	LEU	487	-8.811	41.891	10.591	1.00	48.49
ATOM	3399	N	ALA	488	-4.641	43.129	9.549	1.00	48.77
ATOM	3400	CA	ALA	488	-4.927	43.177	10.784	1.00	48.19
ATOM	3401	CB	ALA	488	-4.593	43.275	10.469	1.00	48.77
ATOM	3402	C	ALA	488	-4.513	41.380	11.607	1.00	48.13
ATOM	3403	O	ALA	488	-4.465	41.559	11.835	1.00	48.34
ATOM	3404	N	ARG	489	-4.946	42.432	10.923	1.00	48.38
ATOM	3405	CA	ARG	489	-5.388	40.640	11.533	1.00	48.70
ATOM	3406	CB	ARG	489	-5.738	41.721	10.584	1.00	48.47
ATOM	3407	CG	ARG	489	-4.611	46.010	9.541	1.00	51.46
ATOM	3408	CD	ARG	489	-5.070	44.949	8.445	1.00	51.59
ATOM	3409	C	ARG	489	-6.388	43.173	7.441	1.00	51.53
ATOM	3410	NE	ARG	489	-4.469	48.840	6.242	1.00	51.11
ATOM	3411	O	ARG	489	-6.875	46.357	12.450	1.00	48.17
ATOM	3412	N	ARG	489	-6.667	46.723	13.613	1.00	47.72
ATOM	3413	N	ARG	489	-7.607	45.794	11.863	1.00	48.64
ATOM	3414	CA	ARG	489	-8.447	45.377	12.605	1.00	48.86
ATOM	3415	CB	ARG	489	-8.846	44.617	11.775	1.00	48.19
ATOM	3416	CG	ARG	489	-11.143	43.911	10.784	1.00	49.73

ATCM	3417	CD	ARG	490	-12.089	44.836	10.629	1.00	51.13
ATCM	3418	NE	AFG	490	-11.966	43.619	8.837	1.00	51.85
ATCM	3419	C2	AFG	490	-12.953	41.759	6.616	1.00	51.49
ATCM	3420	NH1	AFG	490	-14.157	41.977	10.141	1.00	51.44
ATCM	3421	NH2	AFG	490	-12.755	41.680	8.871	1.00	50.98
ATCM	3422	C	AFG	490	-8.525	44.532	1.187	1.00	48.05
ATCM	3423	O	AFG	490	-8.860	44.904	11.936	1.00	48.14
ATCM	3424	N	ILE	491	-7.874	43.394	11.602	1.00	47.40
ATCM	3425	CA	ILE	491	-7.509	42.477	11.679	1.00	46.10
ATCM	3426	CR	ILE	491	-6.621	41.323	14.190	1.00	45.42
ATCM	3427	CG2	ILE	491	-6.109	40.440	11.204	1.00	45.08
ATCM	3428	CG1	ILE	491	-7.40	40.494	1.126	1.00	45.31
ATCM	3429	CG1	ILE	491	-6.607	39.364	1.1502	1.00	45.10
ATCM	3430	C	ILE	491	-6.773	42.188	11.811	1.00	45.47
ATCM	3431	C	ILE	491	-7.111	42.012	18.981	1.00	45.47
ATCM	3432	N	THR	492	-5.773	42.984	11.430	1.00	45.88
ATCM	3433	CA	THR	492	-4.993	44.715	18.416	1.00	45.17
ATCM	3434	CR	THR	492	-3.79	41.411	11.814	1.00	44.78
ATCM	3435	CG1	THR	492	-3.644	44.481	1.1030	1.00	44.41
ATCM	3436	CG2	THR	492	-2.887	40.014	18.831	1.00	44.17
ATCM	3437	C	THR	492	-5.843	45.333	1.1111	1.00	43.83
ATCM	3438	C	THR	492	-5.733	41.933	18.266	1.00	47.12
ATCM	3439	N	GLU	492	-6.689	46.414	1.137	1.00	47.11
ATCM	3440	CA	GLU	492	-7.133	47.347	18.634	1.00	48.40
ATCM	3441	CB	GLU	492	-7.897	48.517	1.1860	1.00	48.93
ATCM	3442	CG	GLU	492	-6.711	49.374	1.1407	1.00	51.65
ATCM	3443	CD	GLU	492	-2.087	50.372	14.347	1.00	54.31
ATCM	3444	CG1	GLU	492	-7.489	49.981	18.138	1.00	51.73
ATCM	3445	CG2	GLU	492	-6.195	51.541	11.633	1.00	55.03
ATCM	3446	C	GLU	492	-8.866	46.903	1.1433	1.00	47.51
ATCM	3447	C	GLU	492	-9.804	47.601	17.734	1.00	48.33
ATCM	3448	C	ALA	494	-8.813	41.337	1.1860	1.00	45.76
ATCM	3449	CA	ALA	494	-10.173	44.536	18.133	1.00	47.41
ATCM	3450	CB	ALA	494	-10.671	47.541	1.1901	1.00	47.38
ATCM	3451	C	ALA	494	-9.733	44.113	1.1437	1.00	47.16
ATCM	3452	C	ALA	494	-10.604	47.739	20.136	1.00	47.33
ATCM	3453	N	LEU	495	-8.533	41.731	14.173	1.00	38.41
ATCM	3454	CA	LEU	495	-8.113	41.934	21.773	1.00	37.83
ATCM	3455	CB	LEU	495	-7.426	42.866	21.810	1.00	37.12
ATCM	3456	CG	LEU	495	-7.873	40.812	18.033	1.00	38.31
ATCM	3457	CD1	LEU	495	-11.473	40.537	14.033	1.00	37.47
ATCM	3458	CD2	LEU	495	-8.871	40.111	19.823	1.00	38.73
ATCM	3459	C	LEU	495	-7.443	41.811	21.783	1.00	37.16
ATCM	3460	C	LEU	495	-6.869	44.835	21.471	1.00	35.11
ATCM	3461	N	ALA	496	-7.543	45.414	21.031	1.00	36.75
ATCM	3462	CA	ALA	496	-8.913	44.141	21.14	1.00	37.32
ATCM	3463	CB	ALA	496	-7.783	41.937	21.833	1.00	36.42
ATCM	3464	C	ALA	496	-5.327	41.636	21.360	1.00	37.36
ATCM	3465	C	ALA	496	-4.636	44.437	21.733	1.00	38.36
ATCM	3466	N	ILE	497	-5.130	41.374	21.03	1.00	38.35
ATCM	3467	CA	ILE	497	-3.961	41.793	21.167	1.00	38.23
ATCM	3468	CB	ILE	497	-4.015	40.246	21.134	1.00	37.42
ATCM	3469	CG2	ILE	497	-4.894	39.770	25.433	1.00	37.32
ATCM	3470	CG1	ILE	497	-4.333	41.708	21.900	1.00	38.12
ATCM	3471	CD1	ILE	497	-4.351	38.230	21.813	1.00	38.06
ATCM	3472	C	ILE	497	-3.931	42.230	21.11	1.00	39.35
ATCM	3473	O	ILE	497	-3.117	42.633	21.903	1.00	40.42
ATCM	3474	N	PRO	498	-1.759	42.333	21.577	1.00	39.39
ATCM	3475	CD	PRO	498	-1.043	42.038	21.649	1.00	38.12
ATCM	3476	CA	PRO	498	-0.796	42.737	21.734	1.00	39.36
ATCM	3477	CB	PRO	498	-0.343	42.807	21.033	1.00	40.37
ATCM	3478	C	PRO	498	-0.753	41.684	21.133	1.00	39.35
ATCM	3479	C	PRO	498	-0.763	41.764	21.137	1.00	40.33
ATCM	3480	C	PRO	498	-0.804	40.551	21.311	1.00	40.13
ATCM	3481	N	VAL	499	-0.631	42.302	19.917	1.00	40.34
ATCM	3482	CA	VAL	499	-0.903	41.475	18.713	1.00	39.37
ATCM	3483	CB	VAL	499	-1.711	41.977	17.733	1.00	39.32
ATCM	3484	CG1	VAL	499	-1.633	40.973	16.517	1.00	39.71
ATCM	3485	CG2	VAL	499	-3.033	41.785	14.413	1.00	39.37
ATCM	3486	C	VAL	499	-0.731	41.632	18.610	1.00	40.33
ATCM	3487	C	VAL	499	-1.031	42.633	17.433	1.00	40.65
ATCM	3488	N	ILE	500	-1.553	40.524	18.063	1.00	41.73
ATCM	3489	CA	ILE	500	-2.863	40.507	17.441	1.00	41.57
ATCM	3490	CB	ILE	500	-3.803	39.525	18.141	1.00	42.09
ATCM	3491	CG2	ILE	500	-5.176	39.527	17.433	1.00	41.77
ATCM	3492	CG1	ILE	500	-1.633	41.637	18.633	1.00	41.33
ATCM	3493	CD1	ILE	500	-4.133	38.133	18.133	1.00	41.71

ATOM	2494	C	ILE	500	2.695	40.090	15.990	1.00	41.61
ATOM	2495	O	ILE	500	2.071	39.062	15.693	1.00	40.85
ATOM	2496	N	GLY	501	3.254	40.481	15.081	1.00	40.82
ATOM	2497	CA	GLY	501	3.118	40.552	13.672	1.00	40.29
ATOM	2498	C	GLY	501	4.371	40.592	12.968	1.00	39.63
ATOM	2499	O	GLY	501	5.494	40.545	13.405	1.00	39.28
ATOM	2500	N	ILE	502	4.154	39.301	11.660	1.00	39.70
ATOM	2501	CA	ILE	502	5.224	38.475	11.032	1.00	41.34
ATOM	2502	CB	ILE	502	5.709	37.385	11.553	1.00	41.52
ATOM	2503	CG2	ILE	502	4.512	36.582	11.830	1.00	42.33
ATOM	2504	CG1	ILE	502	6.659	36.545	10.544	1.00	42.33
ATOM	2505	CD1	ILE	502	7.958	37.584	10.175	1.00	43.95
ATOM	2506	C	ILE	502	4.676	38.766	9.609	1.00	42.06
ATOM	2507	O	ILE	502	4.029	37.782	9.245	1.00	42.10
ATOM	2508	N	GLY	503	4.927	39.461	8.812	1.00	43.11
ATOM	2509	CA	GLY	503	4.426	39.411	7.449	1.00	44.13
ATOM	2510	C	GLY	503	2.981	40.173	7.444	1.00	44.13
ATOM	2511	O	GLY	503	2.215	39.450	6.135	1.00	44.93
ATOM	2512	N	ALA	504	2.812	41.125	8.474	1.00	44.17
ATOM	2513	CA	ALA	504	1.255	41.140	8.610	1.00	45.44
ATOM	2514	CB	ALA	504	0.612	40.576	9.371	1.00	45.34
ATOM	2515	C	ALA	504	1.249	40.565	8.663	1.00	45.56
ATOM	2516	O	ALA	504	0.245	40.577	9.626	1.00	45.56
ATOM	2517	N	GLY	505	2.373	40.472	8.198	1.00	46.27
ATOM	2518	CA	GLY	505	2.465	40.119	8.116	1.00	47.16
ATOM	2519	C	GLY	505	2.955	40.444	9.652	1.00	47.80
ATOM	2520	O	GLY	505	3.187	44.170	10.181	1.00	46.72
ATOM	2521	N	ASN	506	0.106	40.965	9.149	1.00	47.18
ATOM	2522	CA	ASN	506	3.582	40.400	10.874	1.00	47.27
ATOM	2523	CB	ASN	506	4.561	40.175	10.624	1.00	47.68
ATOM	2524	CG	ASN	506	3.932	40.137	9.656	1.00	47.61
ATOM	2525	OD1	ASN	506	4.678	50.613	9.156	1.00	49.34
ATOM	2526	ND2	ASN	506	2.674	49.603	9.788	1.00	47.65
ATOM	2527	C	ASN	506	2.445	40.146	11.831	1.00	47.61
ATOM	2528	O	ASN	506	2.671	40.161	12.134	1.00	48.95
ATOM	2529	N	VAL	507	1.212	40.581	11.141	1.00	46.35
ATOM	2530	CA	VAL	507	0.046	40.116	12.105	1.00	46.94
ATOM	2531	CB	VAL	507	-1.146	40.615	11.482	1.00	47.45
ATOM	2532	CG1	VAL	507	-1.447	40.698	12.222	1.00	48.30
ATOM	2533	CG2	VAL	507	-1.117	48.606	10.717	1.00	48.35
ATOM	2534	C	VAL	507	-0.070	40.337	13.621	1.00	46.12
ATOM	2535	O	VAL	507	-0.693	40.342	14.567	1.00	47.09
ATOM	2536	N	THR	508	0.531	40.171	13.683	1.00	46.59
ATOM	2537	CA	THR	508	0.494	40.335	14.896	1.00	46.09
ATOM	2538	CB	THR	508	1.109	43.315	14.653	1.00	46.09
ATOM	2539	CG1	THR	508	2.438	44.051	14.138	1.00	46.20
ATOM	2540	CG2	THR	508	0.264	43.116	13.658	1.00	45.82
ATOM	2541	C	THR	508	1.239	46.056	16.642	1.00	45.51
ATOM	2542	O	THR	508	2.017	46.064	15.823	1.00	45.13
ATOM	2543	N	ASP	509	0.993	45.592	17.163	1.00	44.71
ATOM	2544	CA	ASP	509	1.630	45.140	18.447	1.00	44.13
ATOM	2545	CB	ASP	509	0.940	45.627	19.713	1.00	44.30
ATOM	2546	CG	ASP	509	-0.541	45.432	19.738	1.00	43.31
ATOM	2547	OD1	ASP	509	-0.899	47.113	19.130	1.00	41.37
ATOM	2548	OD2	ASP	509	-1.343	44.140	19.764	1.00	41.18
ATOM	2549	C	ASP	509	1.113	45.311	18.910	1.00	41.35
ATOM	2550	O	ASP	509	1.914	46.376	19.130	1.00	41.12
ATOM	2551	N	GLY	510	1.473	41.636	17.983	1.00	41.35
ATOM	2552	CA	GLY	510	4.864	44.115	18.001	1.00	44.15
ATOM	2553	C	GLY	510	3.269	43.179	16.749	1.00	41.41
ATOM	2554	O	GLY	510	3.445	43.211	15.879	1.00	40.13
ATOM	2555	N	GLN	511	1.647	43.115	14.667	1.00	43.48
ATOM	2556	CA	GLN	511	1.663	42.147	10.517	1.00	43.71
ATOM	2557	CB	GLN	511	1.893	43.342	14.605	1.00	41.63
ATOM	2558	CG	GLN	511	1.154	44.145	14.352	1.00	34.39
ATOM	2559	CH	GLN	511	1.628	43.317	12.359	1.00	34.03
ATOM	2560	CH1	GLN	511	1.386	43.333	12.136	1.00	36.45
ATOM	2561	NH1	GLN	511	4.878	44.511	13.617	1.00	37.24
ATOM	2562	C	GLN	511	7.430	41.208	15.959	1.00	43.26
ATOM	2563	O	GLN	511	6.431	41.137	17.034	1.00	42.66
ATOM	2564	N	ILE	512	6.139	40.237	15.015	1.00	43.75
ATOM	2565	CA	ILE	512	8.957	39.125	15.343	1.00	44.30
ATOM	2566	CB	ILE	512	8.159	38.052	16.134	1.00	44.90
ATOM	2567	CG1	ILE	512	7.877	37.448	15.134	1.00	44.70
ATOM	2568	CG2	ILE	512	9.108	36.862	16.627	1.00	43.78
ATOM	2569	CD1	ILE	512	8.443	35.897	17.545	1.00	43.66
ATOM	2570	C	ILE	512	9.171	36.233	14.312	1.00	44.33

ATOM	3571	O	ILE	513	8.843	38.689	12.979	1.00	44.73
ATOM	3572	N	LEU	513	10.625	37.879	14.087	1.00	45.11
ATOM	3573	CA	LEU	513	11.215	37.274	12.903	1.00	45.41
ATOM	3574	CB	LEU	513	11.690	38.360	11.936	1.00	47.61
ATOM	3575	CG	LEU	513	11.333	38.180	10.457	1.00	49.48
ATOM	3576	CD1	LEU	513	12.121	39.187	9.645	1.00	50.47
ATOM	3577	CD2	LEU	513	11.051	36.755	9.988	1.00	50.20
ATOM	3578	O	LEU	513	12.400	36.796	11.288	1.00	44.78
ATOM	3579	O	LEU	513	13.070	36.594	14.337	1.00	44.20
ATOM	3580	N	VAL	514	12.714	35.418	12.431	1.00	43.32
ATOM	3581	CA	VAL	514	13.834	34.530	11.687	1.00	43.17
ATOM	3582	CB	VAL	514	13.914	33.415	11.617	1.00	43.69
ATOM	3583	CG1	VAL	514	15.037	32.460	11.908	1.00	43.51
ATOM	3584	CG2	VAL	514	12.594	32.669	11.554	1.00	43.46
ATOM	3585	O	VAL	514	15.104	35.742	12.638	1.00	42.43
ATOM	3586	O	VAL	514	15.977	36.069	11.679	1.00	42.48
ATOM	3587	N	MET	515	15.931	35.114	12.684	1.00	41.21
ATOM	3588	CA	MET	515	17.190	35.053	13.777	1.00	46.23
ATOM	3589	CB	MET	515	17.915	34.134	13.051	1.00	38.45
ATOM	3590	CG	MET	515	18.139	34.037	13.130	1.00	35.77
ATOM	3591	CD	MET	515	19.630	33.241	14.101	1.00	37.43
ATOM	3592	CE	MET	515	20.830	33.033	14.070	1.00	38.14
ATOM	3593	O	MET	515	18.081	35.669	11.669	1.00	41.31
ATOM	3594	O	MET	515	18.749	36.331	11.067	1.00	36.04
ATOM	3595	N	HIS	516	18.100	34.400	12.110	1.00	40.39
ATOM	3596	CA	HIS	516	18.916	34.017	10.931	1.00	41.60
ATOM	3597	CB	HIS	516	18.685	33.127	10.634	1.00	40.66
ATOM	3598	CG	HIS	516	19.130	32.030	11.751	1.00	38.06
ATOM	3599	CD2	HIS	516	18.871	31.131	11.937	1.00	38.78
ATOM	3600	ND1	HIS	516	20.117	31.213	11.711	1.00	35.03
ATOM	3601	CE1	HIS	516	20.740	30.408	12.810	1.00	35.88
ATOM	3602	NE2	HIS	516	19.843	30.431	13.514	1.00	37.95
ATOM	3603	O	HIS	516	18.637	34.836	9.718	1.00	45.74
ATOM	3604	O	HIS	516	19.136	35.051	8.836	1.00	41.29
ATOM	3605	N	ASP	517	17.439	35.117	9.367	1.00	47.70
ATOM	3606	CA	ASP	517	17.094	34.234	8.419	1.00	41.81
ATOM	3607	CB	ASP	517	15.649	33.817	7.381	1.00	41.49
ATOM	3608	CG	ASP	517	15.832	34.738	7.134	1.00	41.31
ATOM	3609	OD1	ASP	517	16.137	34.836	6.114	1.00	47.95
ATOM	3610	OD2	ASP	517	14.817	33.837	7.481	1.00	48.46
ATOM	3611	O	ASP	517	17.131	37.139	8.738	1.00	46.65
ATOM	3612	O	ASP	517	17.131	38.431	7.731	1.00	47.65
ATOM	3613	N	ALA	518	17.131	37.139	9.938	1.00	47.52
ATOM	3614	CA	ALA	518	17.239	36.938	10.414	1.00	48.26
ATOM	3615	CB	ALA	518	16.748	36.540	11.730	1.00	47.98
ATOM	3616	O	ALA	518	18.833	36.817	10.437	1.00	48.77
ATOM	3617	O	ALA	518	19.113	41.014	10.430	1.00	48.43
ATOM	3618	N	PHE	519	19.753	38.833	10.432	1.00	49.79
ATOM	3619	CA	PHE	519	21.133	38.133	10.437	1.00	50.88
ATOM	3620	CB	PHE	519	21.133	38.833	11.733	1.00	51.46
ATOM	3621	CG	PHE	519	21.133	38.133	12.937	1.00	51.43
ATOM	3622	CD1	PHE	519	20.951	40.433	13.233	1.00	51.32
ATOM	3623	CD2	PHE	519	20.994	38.133	13.333	1.00	51.65
ATOM	3624	CE1	PHE	519	20.150	40.433	14.333	1.00	51.53
ATOM	3625	CE2	PHE	519	19.333	38.133	14.333	1.00	51.19
ATOM	3626	CE	PHE	519	19.633	38.833	15.233	1.00	51.69
ATOM	3627	O	PHE	519	21.333	38.133	15.233	1.00	51.31
ATOM	3628	O	PHE	519	22.130	38.133	15.733	1.00	51.76
ATOM	3629	N	GLY	520	21.133	38.833	8.133	1.00	51.46
ATOM	3630	CA	GLY	520	21.733	38.133	8.333	1.00	51.39
ATOM	3631	O	GLY	520	22.633	38.833	7.133	1.00	51.89
ATOM	3632	O	GLY	520	23.833	38.133	8.333	1.00	51.81
ATOM	3633	N	ALA	521	22.033	38.833	7.533	1.00	51.71
ATOM	3634	CA	ILE	521	22.814	37.133	7.833	1.00	51.45
ATOM	3635	CB	ILE	521	23.633	38.133	8.333	1.00	51.41
ATOM	3636	CG2	ILE	521	23.433	38.833	8.533	1.00	51.38
ATOM	3637	CG1	ILE	521	23.109	41.133	11.333	1.00	51.53
ATOM	3638	CD1	ILE	521	22.872	41.133	11.703	1.00	51.81
ATOM	3639	O	ILE	521	22.375	38.133	8.833	1.00	51.91
ATOM	3640	O	ILE	521	23.133	42.333	8.433	1.00	51.51
ATOM	3641	N	THR	522	21.033	38.133	8.533	1.00	51.60
ATOM	3642	CA	THR	522	22.517	38.133	8.333	1.00	51.64
ATOM	3643	CB	THR	522	19.147	37.733	8.133	1.00	51.24
ATOM	3644	CG1	THR	522	18.278	38.833	8.333	1.00	51.37
ATOM	3645	CG2	THR	522	19.301	31.033	7.533	1.00	50.73
ATOM	3646	O	THR	522	20.355	38.833	8.133	1.00	51.33
ATOM	3647	O	THR	522	21.733	38.833	8.333	1.00	51.33

ATOM	3648	N	GLY	523	20.959	31.942	2.324	1.00	63.15
ATOM	3649	CA	GLY	523	20.881	32.276	1.911	1.00	63.08
ATOM	3650	C	GLY	523	20.874	33.762	1.601	1.00	63.44
ATOM	3651	O	GLY	523	21.492	34.967	2.705	1.00	63.66
ATOM	3652	N	GLY	524	20.170	34.127	0.536	1.00	66.96
ATOM	3653	CA	GLY	524	20.190	35.721	0.146	1.00	67.88
ATOM	3654	C	GLY	524	18.666	35.995	-0.116	1.00	68.73
ATOM	3655	O	GLY	524	18.280	37.077	0.220	1.00	69.43
ATOM	3656	N	HIS	525	17.680	35.071	-0.719	1.00	69.03
ATOM	3657	CA	HIS	525	16.487	35.377	-1.027	1.00	69.66
ATOM	3658	CB	HIS	525	15.987	34.488	-2.163	1.00	70.70
ATOM	3659	CG	HIS	525	16.435	34.989	-3.526	1.00	71.89
ATOM	3660	CD	HIS	525	17.174	34.721	-4.469	1.00	71.58
ATOM	3661	ND1	HIS	525	16.101	36.177	-4.039	1.00	71.13
ATOM	3662	CE1	HIS	525	16.620	36.379	-5.250	1.00	71.51
ATOM	3663	NE2	HIS	525	17.271	35.178	-5.531	1.00	70.71
ATOM	3664	C	HIS	526	15.578	34.109	0.191	1.00	69.38
ATOM	3665	O	HIS	526	14.651	34.109	0.177	1.00	69.47
ATOM	3666	N	ILE	526	15.849	35.979	1.340	1.00	68.60
ATOM	3667	CA	ILE	526	15.147	34.951	1.457	1.00	67.80
ATOM	3668	CB	ILE	526	15.553	36.081	1.121	1.00	67.53
ATOM	3669	CG1	ILE	526	17.001	36.181	1.571	1.00	68.10
ATOM	3670	CG2	ILE	526	15.431	36.234	2.124	1.00	67.42
ATOM	3671	CD1	ILE	526	15.759	38.414	1.890	1.00	67.21
ATOM	3672	C	ILE	527	13.600	36.171	1.116	1.00	67.00
ATOM	3673	O	ILE	527	13.325	36.917	1.350	1.00	67.50
ATOM	3674	N	PRO	527	12.457	35.999	1.118	1.00	66.11
ATOM	3675	CD	PRO	527	12.814	35.998	4.158	1.00	66.60
ATOM	3676	CA	PRO	527	11.254	36.177	2.147	1.00	67.10
ATOM	3677	CB	PRO	527	10.581	35.111	2.874	1.00	67.10
ATOM	3678	CG	PRO	527	11.463	35.984	5.150	1.00	67.87
ATOM	3679	C	PRO	527	11.623	37.368	3.898	1.00	68.14
ATOM	3680	O	PRO	527	11.708	38.390	3.141	1.00	68.60
ATOM	3681	N	LYS	528	10.638	38.119	1.709	1.00	68.16
ATOM	3682	CA	LYS	528	9.719	39.348	1.440	1.00	68.16
ATOM	3683	CB	LYS	528	8.104	38.198	0.507	1.00	68.14
ATOM	3684	CG	LYS	528	8.588	39.300	-0.711	1.00	68.18
ATOM	3685	CD	LYS	528	8.054	38.191	-0.989	1.00	68.15
ATOM	3686	CE	LYS	528	8.237	39.300	-1.159	1.00	68.15
ATOM	3687	NZ	LYS	528	9.409	38.197	-2.931	1.00	68.11
ATOM	3688	C	LYS	528	9.447	40.107	1.707	1.00	68.11
ATOM	3689	O	LYS	528	9.874	41.405	2.471	1.00	68.81
ATOM	3690	N	PHE	529	8.726	39.741	1.648	1.00	59.44
ATOM	3691	CA	PHE	529	8.379	40.383	4.899	1.00	57.66
ATOM	3692	CB	PHE	529	7.358	39.941	5.608	1.00	57.26
ATOM	3693	CG	PHE	529	7.586	38.168	5.381	1.00	56.53
ATOM	3694	CD1	PHE	529	8.487	37.987	6.487	1.00	56.14
ATOM	3695	CD2	PHE	529	6.330	37.117	5.140	1.00	56.12
ATOM	3696	CE1	PHE	529	8.783	36.433	7.146	1.00	56.59
ATOM	3697	CE2	PHE	529	7.285	34.813	5.396	1.00	56.57
ATOM	3698	CZ	PHE	529	8.19	35.478	6.306	1.00	56.19
ATOM	3699	C	PHE	529	9.164	40.56	5.344	1.00	56.58
ATOM	3700	O	PHE	529	9.468	41.212	6.343	1.00	56.43
ATOM	3701	N	ALA	530	10.634	43.34	5.821	1.00	56.18
ATOM	3702	CA	ALA	530	11.878	43.317	6.457	1.00	56.61
ATOM	3703	CB	ALA	530	12.611	43.681	6.568	1.00	56.37
ATOM	3704	C	ALA	530	12.610	41.114	5.564	1.00	56.36
ATOM	3705	O	ALA	530	12.537	41.68	4.100	1.00	56.63
ATOM	3706	N	LYS	531	13.841	41.799	6.511	1.00	56.09
ATOM	3707	CA	LYS	531	14.816	43.42	6.731	1.00	56.80
ATOM	3708	CB	LYS	531	14.39	43.906	6.111	1.00	56.83
ATOM	3709	CG	LYS	531	15.28	44.63	6.333	1.00	57.53
ATOM	3710	CD	LYS	531	14.726	46.180	6.711	1.00	56.93
ATOM	3711	CE	LYS	531	15.716	47.697	6.569	1.00	56.02
ATOM	3712	N1	ASN	531	15.120	48.720	6.833	1.00	56.93
ATOM	3713	C	ASN	531	16.161	42.166	6.073	1.00	56.64
ATOM	3714	O	ASN	531	16.220	41.840	8.193	1.00	56.41
ATOM	3715	N	ASN	532	17.237	42.315	6.293	1.00	56.73
ATOM	3716	CA	ASN	532	18.591	42.110	6.773	1.00	56.93
ATOM	3717	CB	ASN	532	19.543	41.800	5.548	1.00	56.87
ATOM	3718	CG	ASN	532	20.931	41.399	6.017	1.00	56.96
ATOM	3719	CD	ASN	532	21.400	41.903	6.966	1.00	56.69
ATOM	3720	ND1	ASN	532	21.532	40.423	5.335	1.00	56.07
ATOM	3721	C	ASN	532	19.064	43.373	7.424	1.00	55.49
ATOM	3722	O	ASN	532	19.213	44.422	6.798	1.00	56.16
ATOM	3723	N	PRO	533	19.053	43.233	6.173	1.00	55.33
ATOM	3724	CA	PRO	533	19.231	44.427	6.173	1.00	55.10

ATOM	2725	CB	PHE	522	19.655	44.463	10.371	1.00	56.06
ATOM	2726	CG	PHE	522	17.607	44.863	10.312	1.00	56.29
ATOM	2727	CD1	PHE	522	16.643	42.993	10.303	1.00	56.16
ATOM	2728	CD2	PHE	522	17.204	46.124	11.245	1.00	56.64
ATOM	2729	CE1	PHE	522	15.811	44.291	10.128	1.00	56.52
ATOM	2730	CE2	PHE	522	19.863	46.111	11.173	1.00	56.56
ATOM	2731	CZ	PHE	522	14.901	45.654	10.265	1.00	56.79
ATOM	2732	O	PHE	522	22.255	44.446	9.695	1.00	56.80
ATOM	2733	O	PHE	522	21.803	45.414	10.199	1.00	56.46
ATOM	2734	N	LEU	524	21.923	42.505	9.197	1.00	57.19
ATOM	2735	CA	LEU	524	25.177	45.231	9.425	1.00	58.91
ATOM	2736	CB	LEU	524	25.811	43.810	9.535	1.00	58.66
ATOM	2737	CG	LEU	524	25.813	41.588	9.748	1.00	57.55
ATOM	2738	CD1	LEU	524	25.744	41.191	11.576	1.00	56.50
ATOM	2739	CD2	LEU	524	25.801	46.058	9.718	1.00	57.65
ATOM	2740	C	LEU	524	24.641	41.918	8.620	1.00	60.52
ATOM	2741	C	LEU	524	25.201	44.537	8.484	1.00	60.19
ATOM	2742	N	ALA	521	21.180	44.610	7.118	1.00	62.13
ATOM	2743	CA	ALA	521	21.316	44.611	5.691	1.00	64.02
ATOM	2744	CB	ALA	521	21.295	44.213	4.431	1.00	64.69
ATOM	2745	C	ALA	521	22.155	46.122	6.148	1.00	65.15
ATOM	2746	C	ALA	521	24.813	46.617	5.162	1.00	65.11
ATOM	2747	N	GLU	523	22.033	45.673	4.659	1.00	63.27
ATOM	2748	CA	GLU	523	22.285	48.064	7.131	1.00	67.10
ATOM	2749	CB	GLU	523	21.188	48.483	7.121	1.00	68.14
ATOM	2750	CG	GLU	523	22.197	47.773	7.294	1.00	69.52
ATOM	2751	CD	GLU	523	22.113	48.368	5.111	1.00	70.38
ATOM	2752	OE1	GLU	523	21.137	48.756	4.661	1.00	71.10
ATOM	2753	OE2	GLU	523	22.135	48.864	5.481	1.00	70.11
ATOM	2754	C	GLU	523	24.031	48.435	8.123	1.00	66.96
ATOM	2755	C	GLU	523	24.031	47.112	6.165	1.00	67.14
ATOM	2756	N	THR	527	24.268	47.155	6.177	1.00	66.16
ATOM	2757	CA	THR	527	24.268	47.741	5.403	1.00	65.80
ATOM	2758	CB	THR	527	21.135	47.782	10.166	1.00	65.56
ATOM	2759	CG1	THR	527	26.264	48.164	11.143	1.00	65.58
ATOM	2760	CG2	THR	527	24.268	46.416	11.158	1.00	65.83
ATOM	2761	C	THR	527	27.121	46.605	9.639	1.00	68.16
ATOM	2762	O	THR	527	27.100	43.662	9.643	1.00	69.16
ATOM	2763	N	GLA	526	27.033	46.343	10.108	1.00	64.54
ATOM	2764	CA	GLY	528	28.050	46.419	10.132	1.00	63.04
ATOM	2765	C	GLY	528	29.066	44.714	11.617	1.00	62.57
ATOM	2766	O	GLY	528	36.023	44.011	11.883	1.00	62.04
ATOM	2767	N	ASP	529	28.060	44.949	12.462	1.00	61.49
ATOM	2768	CA	ASP	529	28.021	44.342	13.785	1.00	60.74
ATOM	2769	CB	ASP	529	28.158	45.407	14.557	1.00	62.06
ATOM	2770	CG	ASP	529	21.250	43.838	16.262	1.00	63.43
ATOM	2771	CD1	ASP	529	21.122	43.635	17.226	1.00	63.49
ATOM	2772	CD2	ASP	529	28.120	43.545	16.402	1.00	64.82
ATOM	2773	C	ASP	529	26.656	43.884	14.623	1.00	59.48
ATOM	2774	O	ASP	529	28.624	44.258	13.705	1.00	58.15
ATOM	2775	N	ILE	540	26.685	41.413	14.582	1.00	58.12
ATOM	2776	CA	ILE	540	21.435	41.747	14.667	1.00	56.14
ATOM	2777	CB	ILE	540	21.150	41.391	15.456	1.00	57.15
ATOM	2778	CG2	ILE	540	24.438	38.621	15.772	1.00	56.57
ATOM	2779	CG1	ILE	540	26.636	38.515	14.461	1.00	56.82
ATOM	2780	CD1	ILE	540	21.153	36.264	15.330	1.00	57.57
ATOM	2781	C	ILE	540	21.612	43.534	15.864	1.00	54.18
ATOM	2782	O	ILE	540	21.410	42.753	15.663	1.00	53.54
ATOM	2783	N	ARG	541	21.152	43.003	16.932	1.00	52.13
ATOM	2784	CA	ARG	541	24.154	43.719	17.555	1.00	59.08
ATOM	2785	CB	ARG	541	21.604	44.118	18.710	1.00	19.65
ATOM	2786	CG	ARG	541	26.276	43.381	19.753	1.00	18.14
ATOM	2787	CD	ARG	541	21.038	43.238	20.938	1.00	47.15
ATOM	2788	NE	ARG	541	21.176	42.623	21.655	1.00	17.94
ATOM	2789	CD	ARG	541	23.112	41.678	21.987	1.00	47.57
ATOM	2790	NH1	ARG	541	25.383	41.004	19.787	1.00	47.51
ATOM	2791	NH2	ARG	541	26.598	40.004	21.871	1.00	47.56
ATOM	2792	C	ARG	541	23.999	45.066	17.359	1.00	50.30
ATOM	2793	O	ARG	541	22.915	45.515	17.769	1.00	50.16
ATOM	2794	N	ALA	541	24.735	45.853	16.432	1.00	50.13
ATOM	2795	CA	ALA	541	24.297	46.832	15.720	1.00	49.37
ATOM	2796	CB	ALA	541	25.369	47.376	14.296	1.00	49.83
ATOM	2797	C	ALA	541	22.996	46.613	15.629	1.00	49.62
ATOM	2798	O	ALA	541	22.065	47.417	17.054	1.00	49.97
ATOM	2799	N	ALA	541	22.942	45.479	14.230	1.00	49.14
ATOM	2800	CA	ALA	541	21.793	45.999	13.583	1.00	48.58
ATOM	2801	CB	ALA	541	22.012	47.813	17.181	1.00	47.61

ATCM	3802	C	ALA	543	20.593	44.882	14.554	1.00	48.49
ATCM	3803	O	ALA	543	19.431	41.095	14.205	1.00	48.93
ATCM	3804	N	VAL	544	20.923	44.462	15.773	1.00	47.91
ATCM	3805	CA	VAL	544	20.921	44.220	15.807	1.00	48.15
ATCM	3806	CB	VAL	544	20.947	44.544	15.954	1.00	47.72
ATCM	3807	CG1	VAL	544	20.949	44.354	15.133	1.00	48.12
ATCM	3808	CG2	VAL	544	21.151	42.203	15.670	1.00	47.67
ATCM	3809	C	VAL	544	21.180	42.235	15.734	1.00	48.15
ATCM	3810	O	VAL	544	20.955	42.670	17.229	1.00	48.62
ATCM	3811	N	AFG	545	20.112	42.903	17.692	1.00	47.85
ATCM	3812	CA	AFG	545	20.112	42.903	17.692	1.00	47.85
ATCM	3813	CB	AFG	545	20.271	42.639	18.421	1.00	47.82
ATCM	3814	CG	AFG	545	21.478	42.204	19.732	1.00	49.07
ATCM	3815	CI	AFG	545	22.451	42.289	20.325	1.00	49.64
ATCM	3816	DE	AFG	545	22.473	42.659	19.477	1.00	47.11
ATCM	3817	CE	AFG	545	21.521	42.777	19.735	1.00	47.17
ATCM	3818	NH1	AFG	545	21.446	42.774	19.787	1.00	48.25
ATCM	3819	NH2	AFG	545	20.447	42.600	18.444	1.00	47.12
ATCM	3820	C	AFG	545	19.426	42.461	18.908	1.00	48.19
ATCM	3821	O	AFG	545	19.426	42.461	18.908	1.00	48.19
ATCM	3822	N	GLN	546	19.426	42.461	18.908	1.00	48.19
ATCM	3823	CA	GLN	546	19.426	42.461	18.908	1.00	48.19
ATCM	3824	CB	GLN	546	19.426	42.461	18.908	1.00	48.19
ATCM	3825	CG	GLN	546	19.426	42.461	18.908	1.00	48.19
ATCM	3826	CD	GLN	546	19.426	42.461	18.908	1.00	48.19
ATCM	3827	CE1	GLN	546	20.819	42.461	18.908	1.00	48.19
ATCM	3828	NH2	GLN	546	19.426	42.461	18.908	1.00	48.19
ATCM	3829	C	GLN	546	19.426	42.461	18.908	1.00	48.19
ATCM	3830	O	GLN	546	19.426	42.461	18.908	1.00	48.19
ATCM	3831	N	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3832	CA	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3833	CB	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3834	CG	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3835	CD1	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3836	CE1	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3837	CD2	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3838	CE2	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3839	CD	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3840	CH	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3841	C	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3842	O	TYR	547	19.426	42.461	18.908	1.00	48.19
ATCM	3843	N	MET	548	19.426	42.461	18.908	1.00	48.19
ATCM	3844	CA	MET	548	19.426	42.461	18.908	1.00	48.19
ATCM	3845	CB	MET	548	19.426	42.461	18.908	1.00	48.19
ATCM	3846	CG	MET	548	19.426	42.461	18.908	1.00	48.19
ATCM	3847	CD	MET	548	19.426	42.461	18.908	1.00	48.19
ATCM	3848	CE	MET	548	19.426	42.461	18.908	1.00	48.19
ATCM	3849	C	MET	548	19.426	42.461	18.908	1.00	48.19
ATCM	3850	O	MET	548	19.426	42.461	18.908	1.00	48.19
ATCM	3851	N	ALA	549	19.426	42.461	18.908	1.00	48.19
ATCM	3852	CA	ALA	549	19.426	42.461	18.908	1.00	48.19
ATCM	3853	CB	ALA	549	19.426	42.461	18.908	1.00	48.19
ATCM	3854	C	ALA	549	19.426	42.461	18.908	1.00	48.19
ATCM	3855	O	ALA	549	19.426	42.461	18.908	1.00	48.19
ATCM	3856	N	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3857	CA	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3858	CB	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3859	CG	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3860	CD	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3861	CE1	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3862	CE2	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3863	C	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3864	O	GLU	550	19.426	42.461	18.908	1.00	48.19
ATCM	3865	N	VAL	551	19.426	42.461	18.908	1.00	48.19
ATCM	3866	CA	VAL	551	19.426	42.461	18.908	1.00	48.19
ATCM	3867	CB	VAL	551	19.426	42.461	18.908	1.00	48.19
ATCM	3868	CG1	VAL	551	19.426	42.461	18.908	1.00	48.19
ATCM	3869	CG2	VAL	551	19.426	42.461	18.908	1.00	48.19
ATCM	3870	C	VAL	551	19.426	42.461	18.908	1.00	48.19
ATCM	3871	O	VAL	551	19.426	42.461	18.908	1.00	48.19
ATCM	3872	N	GLU	552	19.426	42.461	18.908	1.00	48.19
ATCM	3873	CA	GLU	552	19.426	42.461	18.908	1.00	48.19
ATCM	3874	CB	GLU	552	19.426	42.461	18.908	1.00	48.19
ATCM	3875	CG	GLU	552	19.426	42.461	18.908	1.00	48.19
ATCM	3876	CD	GLU	552	19.426	42.461	18.908	1.00	48.19
ATCM	3877	CE1	GLU	552	19.426	42.461	18.908	1.00	48.19
ATCM	3878	CE2	GLU	552	19.426	42.461	18.908	1.00	48.19

ATOM	3879	C	GLU	552	9.217	53.323	16.492	1.00	53.07
ATOM	3880	O	GLU	552	8.295	53.078	16.811	1.00	52.73
ATOM	3881	N	SER	553	10.035	52.570	15.474	1.00	52.74
ATOM	3882	CA	SER	553	9.903	53.562	14.651	1.00	53.94
ATOM	3883	CB	SER	553	11.270	54.065	13.958	1.00	54.05
ATOM	3884	OG	SER	553	12.264	54.753	14.908	1.00	56.04
ATOM	3885	C	SER	553	8.811	54.583	13.607	1.00	54.10
ATOM	3886	O	SER	553	8.314	54.556	13.034	1.00	53.78
ATOM	3887	N	GLY	554	8.419	52.278	13.256	1.00	53.73
ATOM	3888	CA	GLY	554	7.413	52.051	12.371	1.00	53.14
ATOM	3889	O	GLY	554	8.077	51.889	11.003	1.00	53.03
ATOM	3890	C	GLY	554	7.353	51.571	10.030	1.00	52.59
ATOM	3891	N	VAL	555	9.347	52.109	10.931	1.00	52.96
ATOM	3892	CA	VAL	555	10.079	51.984	9.607	1.00	52.87
ATOM	3893	CB	VAL	555	11.563	52.567	9.862	1.00	53.58
ATOM	3894	CG1	VAL	555	12.285	52.515	8.523	1.00	52.84
ATOM	3895	CG2	VAL	555	11.671	52.549	10.485	1.00	53.68
ATOM	3896	O	VAL	555	9.998	50.594	9.156	1.00	52.67
ATOM	3897	C	VAL	555	9.908	50.314	7.944	1.00	52.13
ATOM	3898	N	TYR	556	11.071	49.598	10.076	1.00	52.50
ATOM	3899	CA	TYR	556	9.960	49.183	8.719	1.00	51.50
ATOM	3900	CB	TYR	556	11.277	49.450	10.173	1.00	51.82
ATOM	3901	CG	TYR	556	12.214	49.907	9.869	1.00	51.69
ATOM	3902	CD1	TYR	556	11.204	49.509	8.551	1.00	50.94
ATOM	3903	CE1	TYR	556	11.189	49.160	8.200	1.00	51.38
ATOM	3904	CE2	TYR	556	11.213	49.004	10.892	1.00	51.14
ATOM	3905	CE3	TYR	556	11.047	48.670	10.613	1.00	50.47
ATOM	3906	CZ	TYR	556	12.082	49.741	9.095	1.00	50.81
ATOM	3907	OH	TYR	556	12.695	49.967	9.040	1.00	50.35
ATOM	3908	H	TYR	556	8.741	49.501	10.163	1.00	51.68
ATOM	3909	D	TYR	556	8.529	49.083	11.565	1.00	51.11
ATOM	3910	N	PRO	557	11.927	49.810	9.505	1.00	52.11
ATOM	3911	CD	PRO	557	11.597	49.619	10.007	1.00	52.88
ATOM	3912	CA	PRO	557	8.160	49.601	8.100	1.00	52.89
ATOM	3913	CB	PRO	557	7.113	49.405	7.840	1.00	52.64
ATOM	3914	CG	PRO	557	8.089	49.634	8.586	1.00	52.81
ATOM	3915	C	PRO	557	7.684	49.819	7.192	1.00	53.09
ATOM	3916	O	PRO	557	8.582	49.508	7.684	1.00	53.48
ATOM	3917	N	GLY	558	8.796	49.038	6.170	1.00	52.27
ATOM	3918	CA	GLY	558	8.055	49.001	5.316	1.00	51.64
ATOM	3919	C	GLY	558	6.840	49.807	4.444	1.00	54.13
ATOM	3920	O	GLY	558	5.703	49.632	4.900	1.00	54.10
ATOM	3921	N	GLU	559	7.081	49.590	3.186	1.00	51.86
ATOM	3922	CA	GLU	559	6.001	49.709	2.245	1.00	54.22
ATOM	3923	CB	GLU	559	5.822	49.482	1.276	1.00	55.40
ATOM	3924	CG	GLU	559	4.506	49.415	0.461	1.00	56.21
ATOM	3925	CD	GLU	559	3.795	49.190	1.321	1.00	56.59
ATOM	3926	CE1	GLU	559	2.175	49.406	0.800	1.00	57.07
ATOM	3927	CE2	GLU	559	2.440	49.916	2.518	1.00	57.03
ATOM	3928	C	GLU	559	6.295	49.698	1.452	1.00	54.13
ATOM	3929	O	GLU	559	5.378	49.636	1.026	1.00	53.93
ATOM	3930	N	GLU	560	7.576	49.751	1.253	1.00	53.63
ATOM	3931	CA	GLU	560	6.977	49.500	0.515	1.00	54.17
ATOM	3932	CB	GLU	560	6.409	49.719	-0.027	1.00	54.49
ATOM	3933	CG	GLU	560	5.861	49.161	-0.132	1.00	55.28
ATOM	3934	CD	GLU	560	13.388	49.700	1.180	1.00	55.88
ATOM	3935	CE1	GLU	560	11.523	49.533	1.563	1.00	55.57
ATOM	3936	CE2	GLU	560	9.668	49.478	1.859	1.00	55.73
ATOM	3937	C	GLU	560	7.912	49.352	1.441	1.00	55.99
ATOM	3938	O	GLU	560	6.119	49.215	1.013	1.00	54.19
ATOM	3939	N	HIS	561	7.421	49.818	2.712	1.00	53.86
ATOM	3940	CA	HIS	561	7.527	49.571	3.747	1.00	53.03
ATOM	3941	CB	HIS	561	6.520	49.975	4.972	1.00	53.33
ATOM	3942	CG	HIS	561	9.697	49.507	4.678	1.00	52.71
ATOM	3943	CD	HIS	561	10.282	49.720	4.914	1.00	52.87
ATOM	3944	CE1	HIS	561	10.662	49.753	4.057	1.00	52.82
ATOM	3945	CE2	HIS	561	11.758	49.482	3.926	1.00	53.52
ATOM	3946	NE1	HIS	561	12.529	49.677	4.439	1.00	52.58
ATOM	3947	C	HIS	561	8.973	49.340	4.124	1.00	52.43
ATOM	3948	O	HIS	561	7.787	49.508	4.983	1.00	52.28
ATOM	3949	N	SER	562	8.164	49.081	3.495	1.00	51.41
ATOM	3950	CA	SER	562	3.741	49.973	3.794	1.00	50.51
ATOM	3951	CB	SER	562	3.177	49.359	4.108	1.00	50.14
ATOM	3952	CG	SER	562	3.957	49.021	5.089	1.00	49.54
ATOM	3953	C	SER	562	2.954	49.350	2.644	1.00	50.19
ATOM	3954	O	SER	562	3.781	49.808	1.488	1.00	51.19
ATOM	3955	N	SER	562	1.875	49.764	2.765	1.00	51.19

ATOM	3956	CA	PHE	563	0.966	42.144	1.953	1.00	51.90
ATOM	3957	CB	PHE	563	0.792	40.649	2.230	1.00	51.88
ATOM	3958	CG	PHE	563	2.085	39.889	2.231	1.00	52.62
ATOM	3959	CD1	PHE	563	2.800	39.800	3.481	1.00	52.62
ATOM	3960	CD2	PHE	563	2.598	39.374	1.154	1.00	52.42
ATOM	3961	CE1	PHE	563	4.008	39.107	2.540	1.00	53.30
ATOM	3962	CE2	PHE	563	3.305	38.380	1.200	1.00	53.30
ATOM	3963	CZ	PHE	563	4.512	38.496	2.397	1.00	53.09
ATOM	3964	C	PHE	563	-0.396	42.320	1.925	1.00	52.18
ATOM	3965	O	PHE	563	-0.347	42.371	2.930	1.00	51.96
ATOM	3966	N	HIS	564	-1.051	42.375	0.771	1.00	53.24
ATOM	3967	CA	HIS	564	-2.362	43.394	0.617	1.00	54.66
ATOM	3968	CB	HIS	564	-2.228	44.309	-0.155	1.00	54.83
ATOM	3969	CG	HIS	564	-1.305	45.696	0.493	1.00	55.50
ATOM	3970	CD2	HIS	564	-0.118	46.306	0.036	1.00	55.30
ATOM	3971	ND1	HIS	564	-1.564	46.262	1.737	1.00	55.51
ATOM	3972	CE1	HIS	564	-0.577	47.679	2.046	1.00	55.12
ATOM	3973	NE2	HIS	564	0.314	47.662	1.073	1.00	55.47
ATOM	3974	C	HIS	564	-0.315	42.457	-0.111	1.00	54.19
ATOM	3975	O	HIS	564	-4.355	42.357	0.434	1.00	53.03
ATOM	3976	CGT	ILE	565	-2.906	42.340	1.236	1.00	55.89
ATOM	3977	CI	ILE	565	8.381	32.405	11.207	1.00	41.48
ATOM	3978	CD	ILE	565	7.705	33.208	13.714	1.00	41.70
ATOM	3979	CE	ILE	565	8.747	33.341	14.553	1.00	41.04
ATOM	3980	CI	ILE	565	6.432	33.329	13.637	1.00	42.99
ATOM	3981	CE1	ILE	565	5.502	32.994	12.852	1.00	47.13
ATOM	3982	CE2	ILE	565	7.641	31.537	14.213	1.00	41.11
ATOM	3983	CE3	ILE	565	6.545	31.384	14.656	1.00	40.23
ATOM	3984	CE4	ILE	565	8.817	30.664	14.510	1.00	39.79
ATOM	3985	CE5	ILE	565	9.946	31.012	14.179	1.00	41.42
ATOM	3986	O4	ILE	565	8.649	29.443	15.043	1.00	37.97
ATOM	3987	GB	MET	601	10.230	31.345	-10.646	1.00	39.60
ATOM	3988	CG	MET	601	-9.281	30.343	-11.511	1.00	31.50
ATOM	3989	SD	MET	601	9.632	21.063	-11.729	1.00	73.90
ATOM	3990	CE	MET	601	6.646	19.961	-10.716	1.00	33.00
ATOM	3991	C	MET	601	8.832	22.547	-9.183	1.00	36.93
ATOM	3992	O	MET	601	8.861	23.439	-9.540	1.00	37.63
ATOM	3993	N	MET	601	4.133	30.030	-8.693	1.00	38.90
ATOM	3994	CA	MET	601	9.707	21.337	-9.195	1.00	38.18
ATOM	3995	N	LYS	602	8.036	22.670	-8.032	1.00	34.70
ATOM	3996	CA	LYS	602	7.110	23.667	-7.796	1.00	32.08
ATOM	3997	CB	LYS	602	5.693	23.272	-8.237	1.00	31.38
ATOM	3998	CG	LYS	602	5.557	23.006	-9.731	1.00	34.55
ATOM	3999	CD	LYS	602	5.683	24.288	-10.545	1.00	33.81
ATOM	4000	CE	LYS	602	4.432	25.007	-10.511	1.00	35.96
ATOM	4001	NZ	LYS	602	4.619	25.437	-11.073	1.00	36.71
ATOM	4002	C	LYS	602	7.115	24.381	-8.312	1.00	39.15
ATOM	4003	O	LYS	602	9.210	23.263	-6.006	1.00	39.50
ATOM	4004	N	PRO	603	6.919	21.112	-5.346	1.00	35.94
ATOM	4005	CD	PRO	603	7.155	21.394	-3.964	1.00	34.13
ATOM	4006	CA	PRO	603	6.772	21.673	-5.313	1.00	31.11
ATOM	4007	CB	PRO	603	7.249	21.376	-4.103	1.00	32.33
ATOM	4008	CG	PRO	603	6.732	21.075	-3.111	1.00	33.39
ATOM	4009	C	PRO	603	5.317	21.318	-5.639	1.00	36.93
ATOM	4010	O	PRO	603	4.416	20.143	-5.704	1.00	37.26
ATOM	4011	N	THP	604	5.079	22.088	-6.129	1.00	31.83
ATOM	4012	CA	THP	604	3.737	19.639	-6.027	1.00	36.13
ATOM	4013	CB	THP	604	3.732	19.241	-7.268	1.00	36.29
ATOM	4014	CG1	THP	604	4.564	18.265	-6.440	1.00	34.73
ATOM	4015	CG2	THP	604	2.331	19.811	-5.650	1.00	35.27
ATOM	4016	C	THP	604	2.702	19.582	-5.150	1.00	33.23
ATOM	4017	O	THP	604	3.130	19.383	-4.338	1.00	31.13
ATOM	4018	N	THP	605	1.532	20.334	-3.726	1.00	30.63
ATOM	4019	CA	THP	605	0.929	20.307	-4.153	1.00	30.21
ATOM	4020	CB	THP	605	0.531	21.786	-3.865	1.00	30.83
ATOM	4021	CG1	THP	605	1.134	21.365	-4.136	1.00	33.43
ATOM	4022	CG2	THP	605	2.341	21.245	-3.336	1.00	33.99
ATOM	4023	C	THP	605	1.305	19.970	-4.534	1.00	32.07
ATOM	4024	O	THP	605	0.823	19.779	-5.700	1.00	31.36
ATOM	4025	N	ILE	606	-0.355	19.685	-3.565	1.00	31.97
ATOM	4026	CA	ILE	606	-0.767	19.551	-3.604	1.00	21.23
ATOM	4027	CB	ILE	606	-1.495	19.497	-2.318	1.00	23.83
ATOM	4028	CG1	ILE	606	-1.942	19.052	-2.310	1.00	21.53
ATOM	4029	CG2	ILE	606	-1.767	19.531	-1.361	1.00	23.76
ATOM	4030	CI1	ILE	606	-1.204	19.634	-0.677	1.00	32.70
ATOM	4031	CI2	ILE	606	-1.453	20.573	-4.158	1.00	32.72
ATOM	4032	O	ILE	606	-4.177	20.209	-3.357	1.00	21.55

ATOM	4033	N	SER	607	-4.095	21.854	-4.359	1.00	21.35
ATOM	4034	CA	SER	607	-3.691	22.947	-5.113	1.00	21.40
ATOM	4035	CB	SER	607	-3.042	24.171	-4.712	1.00	23.61
ATOM	4036	OG	SER	607	-1.247	24.112	-3.732	1.00	26.17
ATOM	4037	O	SER	607	-1.552	23.544	-6.418	1.00	20.50
ATOM	4038	O	SEP	607	-4.427	23.140	-7.450	1.00	19.39
ATOM	4039	N	LEU	608	-1.448	22.119	-7.125	1.00	20.28
ATOM	4040	CA	LEU	608	-1.194	21.879	-8.147	1.00	20.79
ATOM	4041	CB	LEU	608	-0.777	21.449	-8.635	1.00	22.00
ATOM	4042	CG	LEU	608	0.040	21.902	-9.802	1.00	25.44
ATOM	4043	CD1	LEU	608	1.261	21.012	-10.074	1.00	25.12
ATOM	4044	CD2	LEU	608	-0.794	21.996	-11.055	1.00	26.06
ATOM	4045	C	LEU	608	-3.196	20.859	-8.499	1.00	18.79
ATOM	4046	O	LEU	608	-3.749	21.022	-10.668	1.00	16.03
ATOM	4047	N	LEU	609	-3.425	19.799	-8.116	1.00	16.93
ATOM	4048	CA	LEU	609	-4.255	18.770	-8.645	1.00	15.93
ATOM	4049	CB	LEU	609	-4.784	17.864	-7.415	1.00	14.64
ATOM	4050	CG	LEU	609	-2.919	16.894	-7.636	1.00	16.09
ATOM	4051	CD1	LEU	609	-3.089	15.960	-6.411	1.00	14.19
ATOM	4052	CD2	LEU	609	-2.161	16.931	-9.112	1.00	14.89
ATOM	4053	C	LEU	609	-5.174	16.931	-8.431	1.00	14.23
ATOM	4054	O	LEU	609	-6.549	15.845	-9.361	1.00	14.83
ATOM	4055	N	GLN	610	-7.132	20.111	-7.137	1.00	14.31
ATOM	4056	CA	GLN	610	-7.454	20.114	-7.684	1.00	14.75
ATOM	4057	CB	GLN	610	-7.610	21.601	-6.431	1.00	22.10
ATOM	4058	CG	GLN	610	-9.015	22.119	-6.142	1.00	23.61
ATOM	4059	CD	GLN	610	-12.087	21.170	-6.666	1.00	25.18
ATOM	4060	OE1	GLN	610	-10.864	20.862	-7.136	1.00	25.07
ATOM	4061	NE2	GLN	610	-10.135	20.180	-4.138	1.00	23.46
ATOM	4062	C	GLN	610	-7.666	21.564	-8.961	1.00	19.46
ATOM	4063	O	GLN	610	-8.674	21.139	-9.836	1.00	29.05
ATOM	4064	N	LYS	611	-6.516	22.133	-9.338	1.00	17.95
ATOM	4065	CA	LYS	611	-6.527	22.131	-10.739	1.00	19.00
ATOM	4066	CP	LYS	611	-5.237	21.139	-10.694	1.00	19.60
ATOM	4067	CB	LYS	611	-5.135	24.662	-11.166	1.00	26.12
ATOM	4068	CL	LYS	611	-3.629	25.132	-11.131	1.00	30.65
ATOM	4069	CR	LYS	611	-4.051	25.662	-10.441	1.00	33.63
ATOM	4070	NR	LYS	611	-2.852	25.662	-10.441	1.00	36.49
ATOM	4071	C	LYS	611	-6.684	21.119	-11.811	1.00	18.47
ATOM	4072	O	LYS	611	-7.438	21.119	-12.147	1.00	17.92
ATOM	4073	N	TYR	612	-5.949	21.131	-11.857	1.00	17.92
ATOM	4074	CA	TYR	612	-6.069	21.131	-12.374	1.00	17.14
ATOM	4075	CB	TYR	612	-5.132	19.871	-12.157	1.00	18.31
ATOM	4076	CG	TYR	612	-3.674	19.187	-12.900	1.00	20.39
ATOM	4077	CD1	TYR	612	-2.672	18.314	-12.565	1.00	20.70
ATOM	4078	CE1	TYR	612	-1.325	18.531	-12.819	1.00	22.32
ATOM	4079	CD2	TYR	612	-3.292	20.437	-13.636	1.00	20.10
ATOM	4080	CE2	TYR	612	-1.952	20.619	-11.911	1.00	22.45
ATOM	4081	CZ	TYR	612	-6.978	19.141	-12.507	1.00	20.89
ATOM	4082	OH	TYR	612	0.343	21.024	-11.731	1.00	24.80
ATOM	4083	C	TYR	612	-7.501	18.986	-13.165	1.00	16.86
ATOM	4084	O	TYR	612	-7.342	18.381	-14.136	1.00	17.38
ATOM	4085	N	LYS	613	-8.233	19.871	-11.063	1.00	16.32
ATOM	4086	CA	LYS	613	-8.613	18.935	-10.191	1.00	15.86
ATOM	4087	CB	LYS	613	-10.229	18.673	-10.821	1.00	14.16
ATOM	4088	CG	LYS	613	-11.684	18.111	-10.224	1.00	17.16
ATOM	4089	CD	LYS	613	-12.114	17.314	-9.723	1.00	17.39
ATOM	4090	CE	LYS	613	-13.620	16.366	-9.321	1.00	18.41
ATOM	4091	NZ	LYS	613	-14.048	15.350	-8.988	1.00	17.17
ATOM	4092	O	LYS	613	-16.402	20.961	-11.869	1.00	15.11
ATOM	4093	C	LYS	613	-11.313	19.786	-13.676	1.00	16.11
ATOM	4094	N	GLN	614	-10.097	11.285	-11.523	1.00	17.16
ATOM	4095	CA	GLN	614	-10.716	22.457	-12.099	1.00	18.89
ATOM	4096	CB	GLN	614	-10.667	23.740	-12.558	1.00	21.10
ATOM	4097	CG	GLN	614	-10.111	21.863	-11.039	1.00	20.74
ATOM	4098	CD	GLN	614	-9.994	24.691	-10.574	1.00	25.26
ATOM	4099	OE1	GLN	614	-8.794	25.225	-11.331	1.00	25.96
ATOM	4100	NE2	GLN	614	-8.645	24.216	-9.115	1.00	26.37
ATOM	4101	C	GLN	614	1.154	22.418	-13.613	1.00	15.17
ATOM	4102	O	GLN	614	11.475	21.871	-15.390	1.00	15.11
ATOM	4103	N	GLU	615	-8.314	21.085	-15.016	1.00	16.34
ATOM	4104	CA	GLU	615	-8.945	21.027	-16.426	1.00	16.23
ATOM	4105	CB	GLU	615	-11.491	22.331	-16.557	1.00	16.41
ATOM	4106	CG	GLU	615	-11.011	23.615	-15.899	1.00	16.28
ATOM	4107	CD	GLU	615	-11.579	23.851	-15.792	1.00	16.60
ATOM	4108	CE1	GLU	615	-11.878	23.981	-16.092	1.00	17.20
ATOM	4109	CE2	GLU	615	-11.150	25.061	-15.476	1.00	17.92

ATOM	4110	C	GLU	615	-9.277	20.707	-17.115	1.00	16.72
ATOM	4111	O	GLU	615	-9.025	20.543	-18.310	1.00	16.29
ATOM	4112	N	LYS	616	-9.869	19.778	-16.371	1.00	17.52
ATOM	4113	CA	LYS	616	-10.210	18.460	-16.919	1.00	20.17
ATOM	4114	CB	LYS	616	-11.254	18.567	-18.077	1.00	23.07
ATOM	4115	CG	LYS	616	-12.604	19.120	-17.686	1.00	29.30
ATOM	4116	CD	LYS	616	-13.410	18.131	-16.789	1.00	32.47
ATOM	4117	CE	LYS	616	-14.817	18.660	-16.576	1.00	33.31
ATOM	4118	NZ	LYS	616	-15.508	18.981	-17.807	1.00	38.09
ATOM	4119	C	LYS	616	-8.950	17.815	-17.475	1.00	21.06
ATOM	4120	O	LYS	616	-8.993	17.018	-18.415	1.00	21.94
ATOM	4121	N	LYS	617	-7.818	18.138	-16.844	1.00	18.77
ATOM	4122	CA	LYS	617	-6.557	17.569	-17.238	1.00	17.56
ATOM	4123	CB	LYS	617	-5.427	18.591	-17.152	1.00	20.76
ATOM	4124	CG	LYS	617	-4.111	18.075	-17.716	1.00	23.47
ATOM	4125	CD	LYS	617	-2.959	18.959	-17.511	1.00	27.46
ATOM	4126	CE	LYS	617	-2.104	20.276	-17.847	1.00	28.51
ATOM	4127	NZ	LYS	617	-2.144	21.290	-17.160	1.00	31.10
ATOM	4128	C	LYS	617	-4.266	18.275	-16.716	1.00	16.64
ATOM	4129	O	LYS	617	-5.871	18.115	-15.712	1.00	14.57
ATOM	4130	N	ARG	618	-6.533	17.180	-16.910	1.00	16.67
ATOM	4131	CA	ARG	618	-6.373	17.977	-16.149	1.00	14.83
ATOM	4132	CB	ARG	618	-6.913	17.773	-16.611	1.00	15.62
ATOM	4133	CG	ARG	618	-8.433	17.769	-16.811	1.00	18.58
ATOM	4134	CD	ARG	618	-9.058	17.769	-17.811	1.00	23.31
ATOM	4135	NE	ARG	618	-8.928	17.711	-19.217	1.00	26.35
ATOM	4136	CZ	ARG	618	-9.601	17.769	-20.111	1.00	27.82
ATOM	4137	NH1	ARG	618	-10.458	17.716	-21.680	1.00	27.95
ATOM	4138	NH2	ARG	618	-9.421	18.111	-21.410	1.00	25.16
ATOM	4139	C	ARG	618	-4.833	17.767	-15.868	1.00	15.48
ATOM	4140	O	ARG	618	-3.993	18.113	-16.718	1.00	16.70
ATOM	4141	N	PHE	619	-4.513	17.412	-14.619	1.00	14.70
ATOM	4142	CA	PHE	619	-3.131	17.110	-14.213	1.00	13.43
ATOM	4143	CB	PHE	619	-2.797	17.341	-13.118	1.00	14.36
ATOM	4144	CG	PHE	619	-1.682	14.210	-11.611	1.00	15.87
ATOM	4145	CD	PHE	619	-1.411	17.111	-10.814	1.00	14.35
ATOM	4146	CE	PHE	619	-4.814	17.111	-11.815	1.00	17.33
ATOM	4147	CE1	PHE	619	-4.344	17.314	-9.718	1.00	14.41
ATOM	4148	CE2	PHE	619	-6.657	17.312	-10.714	1.00	17.37
ATOM	4149	CZ	PHE	619	-5.373	14.111	-9.711	1.00	15.44
ATOM	4150	O	PHE	619	-2.915	11.816	-13.611	1.00	15.10
ATOM	4151	O	PHE	619	-3.663	11.318	-13.611	1.00	14.35
ATOM	4152	N	ALA	620	-1.586	11.451	-13.913	1.00	13.79
ATOM	4153	CA	ALA	620	-1.144	10.144	-13.440	1.00	14.57
ATOM	4154	CB	ALA	620	-0.186	8.519	-14.460	1.00	14.31
ATOM	4155	C	ALA	620	-0.482	10.144	-11.057	1.00	14.38
ATOM	4156	O	ALA	620	0.143	11.115	-11.617	1.00	13.39
ATOM	4157	N	THR	621	-0.646	8.116	-11.312	1.00	12.37
ATOM	4158	CA	THR	621	-0.073	8.962	-9.914	1.00	14.62
ATOM	4159	CB	THR	621	-1.145	8.115	-8.912	1.00	16.68
ATOM	4160	CG1	THR	621	-1.650	10.412	-8.112	1.00	21.56
ATOM	4161	CG2	THR	621	-0.567	8.913	-7.510	1.00	25.02
ATOM	4162	C	THR	621	0.457	7.513	-9.315	1.00	13.44
ATOM	4163	O	THR	621	-0.023	8.818	-10.613	1.00	15.17
ATOM	4164	N	ILE	622	1.428	7.216	-8.919	1.00	14.11
ATOM	4165	CA	ILE	622	1.934	1.918	-8.219	1.00	14.52
ATOM	4166	CB	ILE	622	3.145	3.815	-8.915	1.00	16.11
ATOM	4167	CG2	ILE	622	4.372	6.610	-8.415	1.00	19.85
ATOM	4168	CG1	ILE	622	3.500	4.312	-10.214	1.00	19.83
ATOM	4169	CD	ILE	622	4.448	4.118	-11.317	1.00	22.61
ATOM	4170	C	ILE	622	2.443	5.616	-7.510	1.00	13.66
ATOM	4171	O	ILE	622	2.594	6.411	-6.715	1.00	12.31
ATOM	4172	N	THR	623	2.611	4.317	-7.215	1.00	15.34
ATOM	4173	CA	THR	623	3.089	3.914	-5.915	1.00	16.06
ATOM	4174	CB	THR	623	2.611	2.411	-5.515	1.00	16.43
ATOM	4175	CG1	THR	623	3.187	1.510	-6.414	1.00	19.41
ATOM	4176	CG2	THR	623	1.950	2.310	-5.616	1.00	19.47
ATOM	4177	C	THR	623	4.603	1.910	-6.013	1.00	14.73
ATOM	4178	O	THR	623	3.163	3.719	-7.110	1.00	14.60
ATOM	4179	N	ALA	624	2.219	4.010	-4.213	1.00	14.31
ATOM	4180	CA	ALA	624	3.719	4.014	-4.616	1.00	14.31
ATOM	4181	CB	ALA	624	2.383	5.118	-5.117	1.00	13.11
ATOM	4182	C	ALA	624	2.081	3.610	-3.314	1.00	14.67
ATOM	4183	O	ALA	624	3.417	4.115	-2.412	1.00	14.51
ATOM	4184	N	TYP	625	8.121	2.885	-3.186	1.00	14.94
ATOM	4185	CA	TYP	625	8.584	3.573	-1.816	1.00	13.11
ATOM	4186	CB	TYP	625	7.451	1.111	-1.418	1.00	13.11

ATOM	4187	CG	TYR	625	6.658	0.790	-2.089	1.00	11.16
ATOM	4188	CD1	TYR	625	6.587	0.065	-3.277	1.00	13.08
ATOM	4189	CE1	TYR	625	5.367	-0.253	-3.852	1.00	12.70
ATOM	4190	CD2	TYR	625	5.467	1.199	-1.488	1.00	11.45
ATOM	4191	CE2	TYR	625	4.234	0.886	-2.057	1.00	11.45
ATOM	4192	CZ	TYR	625	4.184	0.151	-3.141	1.00	11.70
ATOM	4197	OH	TYR	625	2.988	-0.200	-2.795	1.00	13.17
ATOM	4194	O	TYR	625	9.589	2.555	-3.624	1.00	14.79
ATOM	4195	O	TYR	625	10.500	2.009	-0.640	1.00	12.38
ATOM	4196	N	ASN	626	10.711	3.177	-2.549	1.00	14.45
ATOM	4197	CA	ASN	626	12.166	3.267	-2.410	1.00	16.17
ATOM	4198	CB	ASN	626	12.807	1.949	-2.861	1.00	18.23
ATOM	4199	CG	ASN	626	12.711	1.703	-4.362	1.00	19.53
ATOM	4200	OD1	ASN	626	13.287	2.419	-5.136	1.00	19.59
ATOM	4201	OD2	ASN	626	11.964	0.794	-4.764	1.00	21.03
ATOM	4202	O	ASN	626	12.744	4.454	-3.159	1.00	16.01
ATOM	4203	O	ASN	626	12.004	5.058	-4.009	1.00	15.86
ATOM	4204	N	THR	627	13.989	4.771	-2.816	1.00	15.66
ATOM	4205	CA	THR	627	14.665	5.086	-3.419	1.00	15.14
ATOM	4206	CB	THR	627	16.108	6.809	-1.715	1.00	16.61
ATOM	4207	CG	THR	627	14.887	5.207	-3.448	1.00	17.51
ATOM	4208	CD1	THR	627	17.005	8.102	-3.039	1.00	17.88
ATOM	4209	CD1	THR	627	17.501	9.237	-3.714	1.00	18.89
ATOM	4210	CD1	THR	627	17.884	6.581	-4.441	1.00	18.61
ATOM	4211	CE1	THR	627	18.704	7.443	-5.107	1.00	20.28
ATOM	4212	CZ	THR	627	18.718	8.787	-4.782	1.00	21.00
ATOM	4213	OH	THR	627	19.004	9.611	-3.800	1.00	22.89
ATOM	4214	O	THR	627	14.801	5.816	-4.909	1.00	15.66
ATOM	4215	O	THR	627	14.801	6.707	-3.800	1.00	15.39
ATOM	4216	N	SER	628	15.703	4.608	-3.417	1.00	15.60
ATOM	4217	CA	SER	628	15.563	4.804	-3.842	1.00	16.14
ATOM	4218	CB	SER	628	16.196	3.109	-3.112	1.00	16.61
ATOM	4219	CG	SER	628	17.468	3.068	-3.417	1.00	18.08
ATOM	4220	O	SER	628	14.187	4.700	-2.746	1.00	16.63
ATOM	4221	O	SER	628	14.448	5.500	-3.701	1.00	14.60
ATOM	4222	N	PHE	629	13.114	4.101	-3.461	1.00	16.10
ATOM	4223	CA	PHE	629	13.803	4.300	-3.800	1.00	15.59
ATOM	4224	CB	PHE	629	15.001	3.100	-3.100	1.00	15.88
ATOM	4225	CG	PHE	629	12.175	1.933	-3.768	1.00	16.37
ATOM	4226	CD1	PHE	629	12.012	0.910	-3.108	1.00	15.67
ATOM	4227	CD2	PHE	629	11.033	1.774	-10.118	1.00	14.99
ATOM	4228	CE1	PHE	629	12.381	-0.261	-3.701	1.00	16.45
ATOM	4229	CE2	PHE	629	11.381	0.630	-1.800	1.00	15.51
ATOM	4230	CZ	PHE	629	12.656	-0.400	-1.100	1.00	15.52
ATOM	4231	O	PHE	629	11.516	5.711	-3.101	1.00	15.42
ATOM	4232	O	PHE	629	11.219	6.362	-3.110	1.00	14.31
ATOM	4233	N	ALA	630	11.519	6.219	-3.400	1.00	14.96
ATOM	4234	CA	ALA	630	10.909	3.564	-3.564	1.00	13.98
ATOM	4235	CB	ALA	630	11.008	3.872	-3.163	1.00	15.22
ATOM	4236	C	ALA	630	11.800	8.545	-3.447	1.00	14.75
ATOM	4237	O	ALA	630	11.240	9.526	-3.104	1.00	13.71
ATOM	4238	N	LYS	631	15.115	8.400	-3.167	1.00	15.76
ATOM	4239	CA	LYS	631	14.911	9.312	-3.103	1.00	17.34
ATOM	4240	CB	LYS	631	15.465	8.833	-3.403	1.00	17.65
ATOM	4241	CG	LYS	631	16.513	9.657	-3.106	1.00	24.27
ATOM	4242	CD	LYS	631	16.611	11.107	-3.700	1.00	26.41
ATOM	4243	CE	LYS	631	15.967	11.307	-3.609	1.00	26.34
ATOM	4244	NZ	LYS	631	18.204	11.574	-1.5164	1.00	29.72
ATOM	4245	C	LYS	631	13.793	9.244	-3.609	1.00	16.69
ATOM	4246	O	LYS	631	13.608	10.360	-3.105	1.00	17.77
ATOM	4247	N	LEU	632	15.507	9.120	-3.103	1.00	16.74
ATOM	4248	CA	LEU	632	15.104	3.100	-3.106	1.00	15.84
ATOM	4249	CB	LEU	632	15.103	6.334	-3.106	1.00	15.23
ATOM	4250	CG	LEU	632	15.109	3.310	-3.100	1.00	14.76
ATOM	4251	CD1	LEU	632	13.500	4.436	-3.402	1.00	15.45
ATOM	4252	CD2	LEU	632	11.809	6.091	-3.104	1.00	14.14
ATOM	4253	O	LEU	632	11.909	4.503	-3.107	1.00	14.72
ATOM	4254	O	LEU	632	11.844	9.153	-3.1035	1.00	15.62
ATOM	4255	N	PRO	633	10.832	3.333	-3.107	1.00	14.97
ATOM	4256	CA	PHE	633	8.501	3.941	-3.147	1.00	17.44
ATOM	4257	CB	PHE	633	8.447	3.463	-3.143	1.00	17.11
ATOM	4258	CG	PHE	633	8.333	6.953	-3.1425	1.00	17.11
ATOM	4259	CD1	PHE	633	8.582	8.156	-3.1543	1.00	18.77
ATOM	4260	CD2	PHE	633	7.601	6.350	-3.1440	1.00	17.81
ATOM	4261	CE1	PHE	633	8.306	4.763	-3.1483	1.00	17.53
ATOM	4262	CE2	PHE	633	7.709	4.963	-3.147	1.00	14.84
ATOM	4263	CD	PHE	633	7.934	4.101	-3.1491	1.00	16.88

ATOM	4264	C	PHE	633	9.683	10.464	-11.469	1.00	19.16
ATOM	4265	O	PHE	633	9.128	11.173	-12.251	1.00	20.23
ATOM	4266	N	ALA	634	10.390	10.964	-10.472	1.00	18.95
ATOM	4267	CA	ALA	634	10.861	12.402	-10.225	1.00	20.80
ATOM	4268	CB	ALA	634	11.815	12.697	-8.841	1.00	22.90
ATOM	4269	C	ALA	634	11.814	12.996	-11.372	1.00	21.47
ATOM	4270	O	ALA	634	10.870	14.033	-11.863	1.00	21.11
ATOM	4271	N	ASP	635	12.839	12.226	-11.391	1.00	21.14
ATOM	4272	CA	ASP	635	13.113	12.732	-13.650	1.00	23.15
ATOM	4273	CB	ASP	635	14.866	11.343	-13.743	1.00	24.34
ATOM	4274	CG	ASP	635	15.888	12.132	-12.341	1.00	24.10
ATOM	4275	OD1	ASP	635	15.842	13.315	-11.890	1.00	27.37
ATOM	4276	OD2	ASP	635	16.649	11.311	-12.117	1.00	26.11
ATOM	4277	C	ASP	635	12.819	12.844	-14.578	1.00	23.85
ATOM	4278	O	ASP	635	12.662	13.806	-15.034	1.00	23.75
ATOM	4279	N	GLU	636	11.859	12.834	-14.433	1.00	22.71
ATOM	4280	CA	GLU	636	10.432	11.836	-15.033	1.00	22.88
ATOM	4281	CB	GLU	636	9.871	10.855	-15.883	1.00	22.80
ATOM	4282	CG	GLU	636	11.887	9.893	-16.753	1.00	24.66
ATOM	4283	CD	GLU	636	11.855	10.834	-17.333	1.00	25.38
ATOM	4284	OE1	GLU	636	11.836	10.810	-18.753	1.00	28.84
ATOM	4285	OE2	GLU	636	13.137	10.846	-17.883	1.00	26.19
ATOM	4286	E	GLU	636	9.810	12.819	-15.863	1.00	21.86
ATOM	4287	O	GLU	636	8.837	13.835	-16.813	1.00	22.81
ATOM	4288	N	GLY	637	8.839	13.835	-14.863	1.00	20.83
ATOM	4289	CA	GLY	637	7.839	14.818	-14.863	1.00	20.89
ATOM	4290	C	GLY	637	6.830	15.831	-12.813	1.00	21.80
ATOM	4291	O	GLY	637	5.832	14.811	-12.813	1.00	22.87
ATOM	4292	N	LEU	638	6.830	12.811	-11.863	1.00	21.80
ATOM	4293	CA	LEU	638	5.839	13.831	-12.863	1.00	22.81
ATOM	4294	CB	LEU	638	5.833	10.861	-14.863	1.00	23.81
ATOM	4295	CG	LEU	638	4.826	9.839	-12.863	1.00	26.88
ATOM	4296	CD1	LEU	638	4.878	8.813	-11.863	1.00	25.83
ATOM	4297	CD2	LEU	638	3.241	9.838	-12.863	1.00	27.34
ATOM	4298	C	LEU	638	5.876	12.831	-10.863	1.00	20.81
ATOM	4299	O	LEU	638	6.883	12.831	-10.863	1.00	22.86
ATOM	4300	N	ASN	639	5.100	11.837	-10.863	1.00	20.83
ATOM	4301	CA	ASN	639	5.115	14.815	-9.863	1.00	18.81
ATOM	4302	CB	ASN	639	5.157	13.831	-11.863	1.00	24.85
ATOM	4303	CG	ASN	639	6.171	15.833	-10.863	1.00	28.84
ATOM	4304	OD1	ASN	639	7.684	15.816	-10.863	1.00	31.84
ATOM	4305	ND2	ASN	639	6.197	16.831	-11.863	1.00	31.82
ATOM	4306	C	ASN	639	4.348	14.811	-8.863	1.00	17.83
ATOM	4307	O	ASN	639	4.240	14.810	-7.863	1.00	16.83
ATOM	4308	N	VAL	640	3.547	11.811	-7.863	1.00	16.81
ATOM	4309	CA	VAL	640	2.518	12.836	-7.863	1.00	15.86
ATOM	4310	CB	VAL	640	1.101	12.830	-7.863	1.00	16.89
ATOM	4311	CG1	VAL	640	0.083	13.833	-8.863	1.00	18.82
ATOM	4312	CG2	VAL	640	0.917	14.836	-8.863	1.00	18.83
ATOM	4313	C	VAL	640	2.712	10.836	-8.863	1.00	15.89
ATOM	4314	O	VAL	640	2.445	10.836	-7.863	1.00	11.74
ATOM	4315	N	MET	641	3.190	10.813	-8.863	1.00	13.95
ATOM	4316	CA	MET	641	3.477	8.832	-11.863	1.00	14.10
ATOM	4317	CB	MET	641	4.383	3.832	-11.863	1.00	14.05
ATOM	4318	CG	MET	641	5.723	9.842	-8.863	1.00	18.23
ATOM	4319	SD	MET	641	7.481	9.167	-11.863	1.00	18.97
ATOM	4320	SE	MET	641	8.019	10.137	-7.863	1.00	20.69
ATOM	4321	C	MET	641	2.813	8.827	-4.863	1.00	11.89
ATOM	4322	O	MET	641	2.504	9.839	-3.863	1.00	10.15
ATOM	4323	N	LEU	642	2.403	7.869	-4.863	1.00	11.59
ATOM	4324	CA	LEU	642	1.343	7.845	-2.863	1.00	15.28
ATOM	4325	CB	LEU	642	0.530	6.862	-3.863	1.00	15.13
ATOM	4326	CG	LEU	642	-0.652	5.854	-2.863	1.00	21.45
ATOM	4327	CD1	LEU	642	-0.395	4.874	-2.863	1.00	21.41
ATOM	4328	CD2	LEU	642	-0.553	6.876	-0.863	1.00	21.80
ATOM	4329	E	LEU	642	0.533	5.868	-2.863	1.00	15.23
ATOM	4330	C	LEU	642	0.920	4.847	-2.863	1.00	15.25
ATOM	4331	N	VAL	643	0.782	6.853	-0.863	1.00	15.09
ATOM	4332	CA	VAL	643	0.478	5.837	-0.863	1.00	15.71
ATOM	4333	CB	VAL	643	0.588	5.868	-0.863	1.00	15.65
ATOM	4334	CG1	VAL	643	0.181	4.876	-1.863	1.00	15.25
ATOM	4335	CG2	VAL	643	0.351	6.863	-0.863	1.00	17.05
ATOM	4336	C	VAL	643	0.307	4.897	-0.863	1.00	15.14
ATOM	4337	O	VAL	643	0.931	4.854	-1.863	1.00	15.03
ATOM	4338	N	GLY	644	1.784	3.813	-0.863	1.00	15.13
ATOM	4339	CA	GLY	644	0.848	2.831	-0.863	1.00	15.89
ATOM	4340	C	GLY	644	0.948	1.849	-0.863	1.00	16.33

ATOM	4341	O	GLY	644	2.038	0.698	0.802	1.00	15.86
ATOM	4342	N	ASP	645	-0.000	1.735	1.717	1.00	15.60
ATOM	4343	CA	ASP	645	0.120	-0.529	2.411	1.00	16.74
ATOM	4344	CB	ASP	645	-0.647	-0.755	3.521	1.00	15.19
ATOM	4345	CG	ASP	645	-2.168	-0.790	3.017	1.00	16.47
ATOM	4346	OD1	ASP	645	-2.449	-0.772	1.794	1.00	13.97
ATOM	4347	OD2	ASP	645	-3.178	-0.843	2.875	1.00	16.97
ATOM	4348	C	ASP	645	0.238	-1.703	1.446	1.00	15.61
ATOM	4349	O	ASP	645	0.486	-2.856	2.860	1.00	18.52
ATOM	4350	N	SER	646	0.169	-1.799	0.151	1.00	14.45
ATOM	4351	CA	SER	646	0.281	-2.435	-0.879	1.00	12.93
ATOM	4352	CB	SER	646	0.041	-1.871	-1.266	1.00	14.73
ATOM	4353	OG	SER	646	0.913	-0.776	-0.478	1.00	16.74
ATOM	4354	C	SER	646	1.635	-2.994	-0.891	1.00	13.99
ATOM	4355	O	SER	646	1.669	-4.085	-1.338	1.00	15.91
ATOM	4356	N	LEU	647	2.594	-2.148	-0.170	1.00	11.93
ATOM	4357	CA	LEU	647	3.977	-2.702	-0.031	1.00	12.24
ATOM	4358	CB	LEU	647	4.839	-1.549	0.601	1.00	12.62
ATOM	4359	CG	LEU	647	4.141	-2.162	2.038	1.00	13.51
ATOM	4360	CD1	LEU	647	5.111	-2.120	3.006	1.00	19.64
ATOM	4361	CD2	LEU	647	5.987	-3.164	3.115	1.00	14.44
ATOM	4362	C	LEU	647	4.113	-3.775	1.318	1.00	13.34
ATOM	4363	O	LEU	647	4.083	-4.728	3.765	1.00	13.88
ATOM	4364	N	GLY	648	2.033	-4.116	1.536	1.00	12.79
ATOM	4365	CA	GLY	648	2.013	-5.410	1.117	1.00	12.76
ATOM	4366	C	GLY	648	2.041	-6.634	1.554	1.00	13.32
ATOM	4367	O	GLY	648	3.355	-7.720	1.977	1.00	12.84
ATOM	4368	N	MET	649	2.476	-6.110	0.328	1.00	13.10
ATOM	4369	CA	MET	649	2.464	-7.715	-0.611	1.00	13.40
ATOM	4370	CB	MET	649	1.383	-7.712	-1.357	1.00	15.15
ATOM	4371	CG	MET	649	-0.330	-7.770	-0.326	1.00	19.61
ATOM	4372	SD	MET	649	-1.749	-7.731	-1.021	1.00	23.87
ATOM	4373	CE	MET	649	-1.876	-8.760	-2.275	1.00	19.10
ATOM	4374	C	MET	649	3.760	-7.497	-1.635	1.00	14.10
ATOM	4375	O	MET	649	4.071	-8.478	-1.803	1.00	13.15
ATOM	4376	N	THR	650	1.777	-6.733	-2.290	1.00	12.15
ATOM	4377	CA	THR	650	4.717	-6.716	-3.203	1.00	13.32
ATOM	4378	CB	THR	650	4.476	-5.015	-1.721	1.00	15.77
ATOM	4379	CG1	THR	650	4.206	-3.775	-3.479	1.00	21.11
ATOM	4380	CG2	THR	650	1.771	-5.111	-4.785	1.00	15.10
ATOM	4381	C	THR	650	6.144	-6.135	-2.776	1.00	12.32
ATOM	4382	O	THR	650	7.139	-6.365	-3.445	1.00	11.17
ATOM	4383	N	VAL	651	6.311	-5.535	-1.576	1.00	11.93
ATOM	4384	CA	VAL	651	7.647	-5.477	-0.296	1.00	11.13
ATOM	4385	CB	VAL	651	7.841	-4.579	-0.353	1.00	12.18
ATOM	4386	CG1	VAL	651	9.311	-3.333	0.316	1.00	13.43
ATOM	4387	CG2	VAL	651	7.711	-3.395	-1.423	1.00	10.42
ATOM	4388	C	VAL	651	7.895	-6.357	0.257	1.00	11.13
ATOM	4389	O	VAL	651	8.858	-7.716	-0.035	1.00	12.12
ATOM	4390	N	GLN	652	7.817	-6.640	1.049	1.00	12.39
ATOM	4391	CA	GLN	652	7.704	-7.715	2.123	1.00	13.70
ATOM	4392	CB	GLN	652	7.137	-7.717	3.153	1.00	13.36
ATOM	4393	CG	GLN	652	6.796	-5.733	3.615	1.00	13.66
ATOM	4394	CD	GLN	652	7.773	-5.762	5.028	1.00	17.73
ATOM	4395	OE1	GLN	652	4.777	-5.662	5.140	1.00	14.17
ATOM	4396	NE2	GLN	652	4.364	-4.319	5.713	1.00	9.59
ATOM	4397	C	GLN	652	6.747	-9.754	1.779	1.00	17.03
ATOM	4398	O	GLN	652	5.756	-8.761	2.388	1.00	14.11
ATOM	4399	N	GLY	653	2.745	-9.733	0.799	1.00	17.46
ATOM	4400	CA	GLY	653	1.776	-10.790	0.408	1.00	14.75
ATOM	4401	C	GLY	653	4.773	-11.744	1.197	1.00	13.98
ATOM	4402	O	GLY	653	4.723	-10.163	1.144	1.00	13.96
ATOM	4403	N	GLU	654	1.693	-10.161	1.724	1.00	13.76
ATOM	4404	CA	GLU	654	2.573	-11.705	2.376	1.00	17.41
ATOM	4405	CB	GLU	654	2.159	-10.732	3.762	1.00	13.99
ATOM	4406	CG	GLU	654	3.151	-9.757	4.344	1.00	17.17
ATOM	4407	CD	GLU	654	5.883	-8.737	5.285	1.00	12.41
ATOM	4408	NE1	GLU	654	3.677	-10.797	5.614	1.00	13.54
ATOM	4409	OE1	GLU	654	4.771	-10.321	6.463	1.00	17.70
ATOM	4410	NE2	GLU	654	4.693	-9.712	7.272	1.00	13.76
ATOM	4411	C	GLU	654	1.337	-11.742	1.747	1.00	13.93
ATOM	4412	O	GLU	654	1.333	-10.723	2.771	1.00	15.11
ATOM	4413	N	ASN	655	0.410	-1.774	2.316	1.00	19.49
ATOM	4414	CA	ASN	655	-0.769	-12.374	1.476	1.00	20.72
ATOM	4415	CB	ASN	655	-1.406	-13.663	1.978	1.00	25.65
ATOM	4416	CG	ASN	655	-2.228	-13.107	3.234	1.00	19.75
ATOM	4417	CD	ASN	655	-3.324	-12.887	4.137	1.00	16.14

ATOM	4418	OD2	ASP	655	-1.789	-13.825	4.330	1.00	34.78
ATOM	4419	C	ASP	655	-1.815	-11.253	1.458	1.00	19.20
ATOM	4420	O	ASP	655	-2.805	-11.310	0.729	1.00	20.52
ATOM	4421	N	SEP	656	-1.410	-10.207	2.316	1.00	16.01
ATOM	4422	CA	SEP	656	-2.545	-9.143	2.407	1.00	14.62
ATOM	4423	CB	SEP	656	-3.657	-9.167	3.401	1.00	14.60
ATOM	4424	CG	SEP	656	-3.135	-6.377	4.751	1.00	13.62
ATOM	4425	C	SEP	656	-1.771	-7.140	2.897	1.00	11.97
ATOM	4426	O	SEP	656	-0.779	-8.771	3.188	1.00	11.43
ATOM	4427	N	THR	657	-2.447	-6.261	2.993	1.00	13.16
ATOM	4428	CA	THR	657	-1.811	-5.533	3.461	1.00	12.70
ATOM	4429	CB	THR	657	-2.435	-4.315	2.798	1.00	14.37
ATOM	4430	CG1	THR	657	-3.732	-4.183	3.240	1.00	14.29
ATOM	4431	CG2	THR	657	-2.421	-4.441	1.270	1.00	16.57
ATOM	4432	C	THR	657	-1.257	-5.394	4.980	1.00	12.71
ATOM	4433	O	THR	657	-1.148	-4.550	5.513	1.00	13.29
ATOM	4434	N	LEU	658	-2.175	-6.177	5.675	1.00	14.03
ATOM	4435	CA	LEU	658	-2.123	-6.012	7.135	1.00	13.77
ATOM	4436	CB	LEU	658	-3.730	-7.076	7.837	1.00	15.46
ATOM	4437	CG	LEU	658	-5.179	-8.708	7.473	1.00	17.50
ATOM	4438	CD1	LEU	658	-5.134	-7.140	6.812	1.00	21.01
ATOM	4439	CD2	LEU	658	-6.133	-7.123	8.332	1.00	18.51
ATOM	4440	C	LEU	658	-1.767	-5.651	8.703	1.00	12.69
ATOM	4441	O	LEU	658	-2.185	-5.150	8.937	1.00	12.58
ATOM	4442	N	PRO	659	-0.153	-6.333	7.521	1.00	14.97
ATOM	4443	CA	PRO	659	-0.181	-7.823	6.732	1.00	12.48
ATOM	4444	CB	PRO	659	0.163	-6.910	8.501	1.00	12.36
ATOM	4445	CG	PRO	659	1.125	-8.338	7.937	1.00	14.47
ATOM	4446	CG1	PRO	659	0.153	-8.175	6.573	1.00	21.34
ATOM	4447	C	PRO	659	1.141	-5.146	8.445	1.00	13.36
ATOM	4448	O	PRO	659	2.154	-5.165	9.273	1.00	14.73
ATOM	4449	N	VAL	660	1.171	-4.168	7.437	1.00	13.75
ATOM	4450	CA	VAL	660	2.131	-3.427	7.253	1.00	12.32
ATOM	4451	CB	VAL	660	1.113	-2.872	6.069	1.00	12.31
ATOM	4452	CG1	VAL	660	2.116	-1.118	5.939	1.00	13.70
ATOM	4453	CG2	VAL	660	1.162	-3.315	4.863	1.00	10.14
ATOM	4454	C	VAL	660	1.194	-2.556	8.583	1.00	13.42
ATOM	4455	O	VAL	660	0.149	-2.161	8.936	1.00	14.34
ATOM	4456	N	THR	661	2.172	-2.177	9.176	1.00	11.38
ATOM	4457	CA	THR	661	2.172	-1.101	10.357	1.00	15.36
ATOM	4458	CB	THR	661	3.195	-1.140	11.439	1.00	17.37
ATOM	4459	CG1	THR	661	3.140	-3.119	11.736	1.00	21.53
ATOM	4460	CG2	THR	661	3.169	-0.385	12.720	1.00	22.77
ATOM	4461	C	THR	661	3.151	0.113	9.998	1.00	14.14
ATOM	4462	O	THR	661	3.153	0.117	8.316	1.00	11.93
ATOM	4463	N	VAL	662	2.122	1.141	10.312	1.00	13.31
ATOM	4464	CA	VAL	662	2.169	2.160	10.712	1.00	15.63
ATOM	4465	CB	VAL	662	2.165	3.195	11.312	1.00	15.72
ATOM	4466	CG1	VAL	662	3.162	4.889	12.112	1.00	18.60
ATOM	4467	CG2	VAL	662	0.138	3.412	12.221	1.00	15.56
ATOM	4468	C	VAL	662	4.471	2.118	10.556	1.00	15.26
ATOM	4469	O	VAL	662	4.913	3.116	9.740	1.00	15.83
ATOM	4470	N	ALA	663	5.255	2.101	12.323	1.00	14.05
ATOM	4471	CA	ALA	663	6.707	2.110	12.216	1.00	14.62
ATOM	4472	CB	ALA	663	7.364	1.119	12.278	1.00	15.71
ATOM	4473	C	ALA	663	7.118	1.113	8.830	1.00	14.13
ATOM	4474	O	ALA	663	9.092	2.170	9.112	1.00	13.75
ATOM	4475	N	ASP	664	6.556	0.129	9.110	1.00	14.22
ATOM	4476	CA	ASP	664	6.586	0.154	7.849	1.00	13.17
ATOM	4477	CB	ASP	664	6.242	-0.886	7.117	1.00	13.69
ATOM	4478	CG	ASP	664	6.484	-2.115	8.100	1.00	11.91
ATOM	4479	CD1	ASP	664	7.525	-1.205	7.110	1.00	10.96
ATOM	4480	CD2	ASP	664	5.484	-1.205	8.117	1.00	14.65
ATOM	4481	C	ASP	664	6.650	1.494	6.115	1.00	12.45
ATOM	4482	O	ASP	664	7.472	1.836	6.017	1.00	15.45
ATOM	4483	N	ILE	665	1.454	1.067	7.015	1.00	11.31
ATOM	4484	CA	ILE	665	1.089	1.165	6.125	1.00	11.80
ATOM	4485	CB	ILE	665	3.680	1.717	6.429	1.00	13.42
ATOM	4486	CG1	ILE	665	3.461	4.942	5.556	1.00	14.44
ATOM	4487	CG2	ILE	665	2.601	5.945	6.187	1.00	11.09
ATOM	4488	CD1	ILE	665	2.482	7.250	4.704	1.00	14.31
ATOM	4489	C	ILE	665	6.097	4.299	6.232	1.00	12.95
ATOM	4490	O	ILE	665	6.542	4.845	5.127	1.00	12.47
ATOM	4491	N	ALA	666	6.453	4.643	7.481	1.00	13.58
ATOM	4492	CA	ALA	666	7.466	5.725	7.764	1.00	13.36
ATOM	4493	CB	ALA	666	7.529	5.929	9.279	1.00	13.13
ATOM	4494	C	ALA	666	8.788	5.478	7.187	1.00	13.43

ATOM	4495	O	ALA	666	9.435	6.386	6.656	1.00	11.50
ATOM	4496	N	THR	667	9.242	4.715	7.341	1.00	12.26
ATOM	4497	CA	THR	667	10.528	3.896	6.701	1.00	12.09
ATOM	4498	CB	THR	667	10.769	2.315	6.987	1.00	12.31
ATOM	4499	CG	THR	667	12.042	1.719	6.741	1.00	11.83
ATOM	4500	CD	THR	667	13.247	1.995	6.741	1.00	13.98
ATOM	4501	CE1	THR	667	14.412	1.421	6.375	1.00	14.36
ATOM	4502	CE2	THR	667	11.841	0.835	5.252	1.00	15.01
ATOM	4503	CE3	THR	667	13.021	0.130	4.673	1.00	13.37
ATOM	4504	CH	THR	667	14.286	0.168	5.189	1.00	15.02
ATOM	4505	OH	THR	667	15.414	0.011	4.611	1.00	14.82
ATOM	4506	C	TYR	667	10.556	4.053	5.194	1.00	12.31
ATOM	4507	O	TYR	667	11.443	4.711	4.672	1.00	9.26
ATOM	4508	N	HIS	668	9.545	3.711	4.499	1.00	12.01
ATOM	4509	CA	HIS	668	9.473	3.770	3.057	1.00	13.41
ATOM	4510	CB	HIS	668	9.423	2.715	2.486	1.00	12.37
ATOM	4511	CG	HIS	668	8.849	1.774	2.536	1.00	11.82
ATOM	4512	CD	HIS	668	8.537	0.771	3.442	1.00	11.45
ATOM	4513	ND1	HIS	668	9.774	0.716	1.543	1.00	13.12
ATOM	4514	CE1	HIS	668	10.118	-0.775	2.014	1.00	11.70
ATOM	4515	NE2	HIS	668	9.312	-0.801	3.071	1.00	12.79
ATOM	4516	C	HIS	668	9.153	5.117	2.011	1.00	14.60
ATOM	4517	O	HIS	668	9.741	5.713	1.878	1.00	16.48
ATOM	4518	N	THR	669	8.869	5.701	3.871	1.00	15.65
ATOM	4519	CA	THR	669	8.842	7.119	3.272	1.00	16.41
ATOM	4520	CB	THR	669	7.730	7.737	4.215	1.00	15.94
ATOM	4521	CG1	THR	669	5.787	7.720	4.113	1.00	15.96
ATOM	4522	CG2	THR	669	6.914	9.714	4.276	1.00	15.38
ATOM	4523	C	THR	669	9.113	8.746	3.177	1.00	15.11
ATOM	4524	O	THR	669	9.495	8.741	2.172	1.00	15.31
ATOM	4525	N	ALA	670	10.705	7.758	4.104	1.00	15.82
ATOM	4526	CA	ALA	670	11.458	5.718	4.151	1.00	14.71
ATOM	4527	CB	ALA	670	12.710	8.770	5.428	1.00	16.21
ATOM	4528	C	ALA	670	12.531	8.749	2.984	1.00	16.53
ATOM	4529	O	ALA	670	13.861	5.785	2.470	1.00	14.81
ATOM	4530	N	ALA	671	12.717	7.794	2.482	1.00	15.41
ATOM	4531	CA	ALA	671	13.141	6.713	1.307	1.00	15.41
ATOM	4532	CB	ALA	671	13.102	5.784	1.180	1.00	14.87
ATOM	4533	C	ALA	671	12.866	7.753	0.619	1.00	16.13
ATOM	4534	O	ALA	671	12.727	7.713	-0.734	1.00	14.32
ATOM	4535	N	VAL	672	11.785	7.781	-0.045	1.00	14.55
ATOM	4536	CA	VAL	672	10.727	8.701	-1.329	1.00	14.46
ATOM	4537	CB	VAL	672	9.148	7.734	-1.313	1.00	15.01
ATOM	4538	CG1	VAL	672	8.482	8.751	-2.711	1.00	15.56
ATOM	4539	CG2	VAL	672	8.841	6.778	-1.656	1.00	16.48
ATOM	4540	C	VAL	672	10.723	9.703	-1.210	1.00	14.16
ATOM	4541	O	VAL	672	11.141	10.703	-2.322	1.00	15.35
ATOM	4542	N	ARG	673	10.773	10.715	-0.185	1.00	13.51
ATOM	4543	CA	ARG	673	11.199	11.704	-0.310	1.00	15.06
ATOM	4544	CB	ARG	673	11.777	12.786	1.390	1.00	15.22
ATOM	4545	CG	ARG	673	11.753	13.780	1.370	1.00	16.26
ATOM	4546	CD	ARG	673	10.702	14.712	0.542	1.00	15.12
ATOM	4547	NE	ARG	673	8.807	14.539	0.809	1.00	16.62
ATOM	4548	CE	ARG	673	7.983	15.058	0.001	1.00	17.11
ATOM	4549	NH1	ARG	673	3.361	15.578	-1.187	1.00	15.79
ATOM	4550	NH2	ARG	673	6.712	15.117	0.461	1.00	15.79
ATOM	4551	C	ARG	673	12.735	11.917	-0.384	1.00	16.55
ATOM	4552	O	ARG	673	12.764	12.953	-0.963	1.00	16.50
ATOM	4553	N	ARG	674	13.150	11.012	-0.350	1.00	16.23
ATOM	4554	CA	ARG	674	14.883	11.752	-0.394	1.00	17.55
ATOM	4555	CB	ARG	674	15.614	15.711	0.739	1.00	17.79
ATOM	4556	C	ARG	674	15.747	15.734	1.173	1.00	17.81
ATOM	4557	CG	ARG	674	16.744	9.589	2.177	1.00	14.80
ATOM	4558	NE	ARG	674	16.811	9.567	1.094	1.00	22.06
ATOM	4559	CE	ARG	674	16.142	8.474	0.134	1.00	21.67
ATOM	4560	NH1	ARG	674	15.715	7.459	2.804	1.00	19.18
ATOM	4561	NH2	ARG	674	16.147	8.517	5.800	1.00	23.55
ATOM	4562	C	ARG	674	15.045	11.264	-1.977	1.00	18.41
ATOM	4563	O	ARG	674	15.865	11.972	-2.489	1.00	17.29
ATOM	4564	N	GLY	675	14.130	10.418	1.306	1.00	18.47
ATOM	4565	CA	GLY	675	14.378	10.321	-4.018	1.00	18.77
ATOM	4566	C	GLY	675	13.602	11.384	4.770	1.00	19.21
ATOM	4567	O	GLY	675	13.987	11.737	-5.889	1.00	17.51
ATOM	4568	N	ALA	676	12.548	11.917	-4.177	1.00	19.73
ATOM	4569	CA	ALA	676	11.737	12.969	-4.771	1.00	21.28
ATOM	4570	CB	ALA	676	10.511	12.747	-5.455	1.00	22.07
ATOM	4571	C	ALA	676	11.271	13.778	-6.781	1.00	21.40

ATOM	4572	O	ALA	676	10.160	13.970	-3.260	1.00	21.80
ATOM	4573	N	PRO	677	12.174	14.951	-3.376	1.00	23.41
ATOM	4574	CD	PRO	677	13.544	15.130	-5.888	1.00	24.44
ATOM	4575	CA	PRO	677	11.854	15.384	-2.384	1.00	24.40
ATOM	4576	CB	PRO	677	13.294	16.654	-2.140	1.00	24.08
ATOM	4577	CG	PRO	677	13.859	16.754	-5.459	1.00	25.08
ATOM	4578	C	PFO	677	10.774	16.689	-2.762	1.00	23.00
ATOM	4579	O	PFO	677	10.137	17.640	-1.891	1.00	25.45
ATOM	4580	N	ASN	678	10.446	17.114	-4.654	1.00	24.75
ATOM	4581	CA	ASN	678	9.483	18.057	-4.497	1.00	24.46
ATOM	4582	CB	ASN	678	9.934	18.492	-9.706	1.00	27.05
ATOM	4583	CG	ASN	678	11.256	19.634	-5.695	1.00	30.19
ATOM	4584	OD1	ASN	678	11.393	20.400	-4.430	1.00	31.07
ATOM	4585	ND2	ASN	678	12.291	19.443	-6.212	1.00	31.46
ATOM	4586	C	ASN	678	8.164	17.381	-4.845	1.00	22.42
ATOM	4587	O	ASN	678	7.206	18.355	-5.105	1.00	21.78
ATOM	4588	N	CYS	679	8.501	16.764	-4.531	1.00	21.77
ATOM	4589	CA	CYS	679	6.645	15.791	-5.080	1.00	20.72
ATOM	4590	CB	CYS	679	7.638	13.704	-5.028	1.00	22.77
ATOM	4591	SG	CYS	679	6.941	12.738	-3.763	1.00	21.05
ATOM	4592	C	CYS	679	5.761	15.749	-4.117	1.00	23.00
ATOM	4593	O	CYS	679	6.115	19.786	-1.071	1.00	25.45
ATOM	4594	N	LEU	680	11.517	15.706	-4.132	1.00	14.40
ATOM	4595	CA	LEU	680	11.380	15.763	-3.720	1.00	16.00
ATOM	4596	CB	LEU	680	11.674	15.639	-1.342	1.00	17.17
ATOM	4597	CG	LEU	680	11.817	15.797	-3.385	1.00	16.71
ATOM	4598	CD1	LEU	680	11.927	16.714	-2.164	1.00	17.44
ATOM	4599	CD2	LEU	680	-0.410	15.717	-4.111	1.00	16.75
ATOM	4600	C	LEU	680	11.314	13.717	-3.666	1.00	15.47
ATOM	4601	O	LEU	680	11.669	13.764	-3.448	1.00	17.45
ATOM	4602	N	LEU	681	11.653	13.699	-1.752	1.00	18.44
ATOM	4603	CA	LEU	681	11.734	12.716	-1.245	1.00	18.31
ATOM	4604	CB	LEU	681	11.654	12.192	-0.174	1.00	18.02
ATOM	4605	CG	LEU	681	11.111	10.834	-0.137	1.00	20.05
ATOM	4606	CD1	LEU	681	7.714	10.377	0.126	1.00	17.66
ATOM	4607	CD2	LEU	681	4.111	10.391	0.163	1.00	21.30
ATOM	4608	C	LEU	681	11.765	11.766	-0.353	1.00	16.68
ATOM	4609	O	LEU	681	11.356	13.702	0.701	1.00	16.46
ATOM	4610	N	LEU	682	11.701	10.774	-0.780	1.00	16.90
ATOM	4611	CA	LEU	682	11.777	10.491	-0.767	1.00	17.13
ATOM	4612	CB	LEU	682	-1.729	10.151	-0.900	1.00	18.79
ATOM	4613	CG	LEU	682	-1.449	11.161	-1.333	1.00	22.69
ATOM	4614	CD1	LEU	682	-1.700	12.753	-0.227	1.00	23.30
ATOM	4615	CD2	LEU	682	-1.641	10.700	-2.070	1.00	23.40
ATOM	4616	C	LEU	682	1.156	9.333	0.690	1.00	16.92
ATOM	4617	O	LEU	682	1.770	8.440	0.098	1.00	18.52
ATOM	4618	N	ALA	683	11.003	9.714	1.957	1.00	14.59
ATOM	4619	CA	ALA	683	11.195	7.869	2.682	1.00	14.34
ATOM	4620	CB	ALA	683	11.223	8.201	1.753	1.00	14.56
ATOM	4621	C	ALA	683	-0.749	7.160	3.303	1.00	13.19
ATOM	4622	O	ALA	683	-0.893	7.967	1.857	1.00	12.69
ATOM	4623	N	ASP	684	-0.161	5.343	0.204	1.00	11.76
ATOM	4624	CA	ASP	684	-1.192	5.324	2.761	1.00	11.79
ATOM	4625	CB	ASP	684	-1.189	3.611	1.193	1.00	11.15
ATOM	4626	CG	ASP	684	-2.137	3.701	1.972	1.00	10.93
ATOM	4627	OD1	ASP	684	-2.083	4.647	0.660	1.00	11.43
ATOM	4628	OD2	ASP	684	-2.154	3.630	1.344	1.00	10.86
ATOM	4629	C	ASP	684	-1.192	5.110	0.356	1.00	14.01
ATOM	4630	O	ASP	684	-0.093	4.004	0.731	1.00	11.66
ATOM	4631	N	LEU	685	-2.139	5.116	1.736	1.00	11.34
ATOM	4632	CA	LEU	685	-2.135	4.819	1.353	1.00	11.73
ATOM	4633	CB	LEU	685	-3.410	5.008	3.118	1.00	10.75
ATOM	4634	CG	LEU	685	-3.114	7.006	3.558	1.00	10.45
ATOM	4635	CD1	LEU	685	-4.018	7.157	9.658	1.00	30.79
ATOM	4636	CD2	LEU	685	-1.600	7.106	9.013	1.00	30.52
ATOM	4637	C	LEU	685	-2.715	3.346	7.119	1.00	15.94
ATOM	4638	O	LEU	685	-3.771	3.322	6.915	1.00	14.96
ATOM	4639	N	PRO	686	-1.876	1.433	7.134	1.00	15.32
ATOM	4640	CA	PRO	686	-0.539	7.607	8.390	1.00	16.43
ATOM	4641	CB	PRO	686	-1.137	6.100	7.643	1.00	16.10
ATOM	4642	CG	PRO	686	-0.309	6.330	8.065	1.00	16.00
ATOM	4643	OD	PRO	686	-0.243	1.343	9.973	1.00	16.05
ATOM	4644	C	PRO	686	-1.357	9.409	8.458	1.00	16.41
ATOM	4645	O	PRO	686	-4.003	1.214	9.143	1.00	16.00
ATOM	4646	N	PHE	687	-3.563	-0.815	8.356	1.00	15.56
ATOM	4647	CA	PHE	687	-4.647	-1.404	9.162	1.00	15.48
ATOM	4648	CB	PHE	687	-4.411	-3.007	8.765	1.00	14.41

ATM	4649	CG	PHE	687	-5.265	-3.841	9.861	1.00	15.81
ATM	4650	CD1	PHE	687	-6.655	-3.762	9.905	1.00	16.16
ATM	4651	CD2	PHE	687	-4.619	-4.758	10.635	1.00	14.41
ATM	4652	CE1	PHE	687	-7.390	-4.595	10.771	1.00	16.59
ATM	4652	CE2	PHE	687	-5.337	-5.597	11.535	1.00	14.28
ATM	4654	CZ	PHE	687	-6.716	-5.516	11.568	1.00	18.27
ATM	4655	C	PHE	687	-4.683	-1.106	10.538	1.00	13.34
ATM	4656	O	PHE	687	-3.634	-1.136	11.209	1.00	12.84
ATM	4657	N	MET	688	-5.841	-0.737	11.027	1.00	14.65
ATM	4658	CA	MET	688	-6.035	-0.337	12.418	1.00	14.46
ATM	4659	CB	MET	688	-5.921	-1.158	13.310	1.00	16.06
ATM	4660	CG	MET	688	-6.712	-1.311	14.648	1.00	16.59
ATM	4661	SD	MET	688	-8.534	-1.347	14.900	1.00	16.99
ATM	4662	CE	MET	688	-8.853	-3.054	14.656	1.00	19.17
ATM	4663	C	MET	688	-5.087	0.767	12.311	1.00	14.34
ATM	4664	O	MET	688	-4.713	0.194	14.197	1.00	18.85
ATM	4665	N	ALA	689	-4.640	1.675	12.131	1.00	14.13
ATM	4666	CA	ALA	689	-3.893	2.763	12.466	1.00	13.66
ATM	4667	CB	ALA	689	-2.719	3.031	11.421	1.00	15.11
ATM	4668	C	ALA	689	-4.610	4.041	12.116	1.00	13.15
ATM	4669	O	ALA	689	-4.531	5.183	13.351	1.00	14.68
ATM	4670	N	TYR	690	-5.923	3.871	13.445	1.00	13.63
ATM	4671	CA	TYR	690	-6.575	5.133	13.763	1.00	13.16
ATM	4672	CB	TYR	690	-7.039	5.375	12.533	1.00	14.16
ATM	4673	CG	TYR	690	-7.351	4.974	13.161	1.00	12.40
ATM	4674	CD1	TYR	690	-8.665	4.841	13.18	1.00	12.68
ATM	4675	CE1	TYR	690	-8.931	4.301	8.41	1.00	13.27
ATM	4676	CD2	TYR	690	-6.152	4.257	9.39	1.00	13.42
ATM	4677	CE2	TYR	690	-6.651	3.413	7.18	1.00	14.83
ATM	4678	CZ	TYR	690	-7.463	3.297	8.101	1.00	13.04
ATM	4679	OH	TYR	690	-8.146	3.463	7.30	1.00	14.87
ATM	4680	C	TYR	690	-8.167	4.693	13.92	1.00	14.88
ATM	4681	O	TYR	690	-9.166	5.144	13.005	1.00	15.19
ATM	4682	N	ALA	691	-7.075	2.809	14.382	1.00	13.80
ATM	4683	CA	ALA	691	-9.125	3.219	14.062	1.00	14.83
ATM	4684	CB	ALA	691	-8.072	3.112	13.393	1.00	13.88
ATM	4685	C	ALA	691	-9.414	4.217	13.388	1.00	13.82
ATM	4686	O	ALA	691	-11.110	4.684	16.113	1.00	14.11
ATM	4687	N	THR	692	-9.115	5.292	13.351	1.00	15.07
ATM	4688	CA	THR	692	-9.116	6.314	17.109	1.00	16.24
ATM	4689	CB	THR	692	-9.008	6.218	16.629	1.00	14.55
ATM	4690	OG1	THR	692	-8.719	6.482	18.902	1.00	15.54
ATM	4691	CG2	THR	692	-10.115	4.867	18.152	1.00	15.71
ATM	4692	C	THR	692	-8.115	7.615	16.636	1.00	18.24
ATM	4693	O	THR	692	-8.110	7.576	16.059	1.00	18.19
ATM	4694	N	PRO	693	-9.110	8.744	16.864	1.00	17.17
ATM	4695	CD	PRO	693	-11.109	8.968	17.351	1.00	18.47
ATM	4696	CA	PRO	693	-9.119	10.074	16.457	1.00	18.57
ATM	4697	CB	PRO	693	-10.115	11.030	17.032	1.00	20.23
ATM	4698	CG	PRO	693	-11.112	10.368	16.873	1.00	19.28
ATM	4699	C	PRO	693	-7.801	10.211	17.021	1.00	18.65
ATM	4700	O	PRO	693	-6.313	10.516	16.283	1.00	15.76
ATM	4701	N	GLU	694	-7.658	10.064	18.314	1.00	18.32
ATM	4702	CA	GLU	694	-6.371	10.194	18.987	1.00	21.05
ATM	4703	CP	GLU	694	-6.435	8.871	20.486	1.00	24.65
ATM	4704	CG	GLU	694	-6.938	11.039	21.341	1.00	31.62
ATM	4705	CD	GLU	694	-6.747	10.604	21.631	1.00	33.61
ATM	4706	OE1	GLU	694	-5.724	10.413	23.221	1.00	40.42
ATM	4707	OE2	GLU	694	-7.694	11.024	23.613	1.00	40.47
ATM	4708	C	GLU	694	-5.290	9.321	18.352	1.00	16.86
ATM	4709	O	GLU	694	-4.156	9.766	18.131	1.00	18.69
ATM	4710	N	GLN	695	-5.621	8.678	18.013	1.00	18.90
ATM	4711	CA	GLN	695	-4.623	8.207	17.383	1.00	17.55
ATM	4712	CB	GLN	695	-5.095	7.994	17.375	1.00	19.51
ATM	4713	CG	GLN	695	-5.169	7.143	18.722	1.00	23.74
ATM	4714	CD	GLN	695	-5.006	7.221	18.754	1.00	26.76
ATM	4715	OE1	GLN	695	-5.107	7.849	18.128	1.00	23.17
ATM	4716	OE2	GLN	695	-6.109	7.477	18.455	1.00	28.67
ATM	4717	C	GLN	695	-4.142	7.671	18.661	1.00	14.39
ATM	4718	O	GLN	695	-4.149	7.596	17.631	1.00	14.17
ATM	4719	N	PRO	696	-5.585	8.134	17.261	1.00	13.15
ATM	4720	CA	PRO	696	-5.187	8.137	17.913	1.00	12.71
ATM	4721	CB	PRO	696	-6.917	9.128	17.313	1.00	12.74
ATM	4722	C	PRO	696	-4.184	8.768	17.965	1.00	13.88
ATM	4723	O	PRO	696	-5.254	9.844	18.158	1.00	14.83
ATM	4724	N	PHE	697	-4.401	10.091	14.924	1.00	13.79
ATM	4725	CA	PHE	697	-4.416	11.144	15.371	1.00	13.73

ATOM	4726	CB	PHE	697	-3.847	12.685	16.307	1.00	14.39
ATOM	4727	CG	PHE	697	-5.272	13.165	16.326	1.00	14.70
ATOM	4728	CD1	PHE	697	-5.973	13.364	15.138	1.00	15.78
ATOM	4729	CE2	PHE	697	-5.913	13.417	17.535	1.00	17.31
ATOM	4730	CE1	PHE	697	-7.196	13.403	15.117	1.00	17.92
ATOM	4731	CE3	PHE	697	-7.125	13.455	17.505	1.00	18.65
ATOM	4732	CD	PHE	697	-7.528	14.355	16.133	1.00	19.31
ATOM	4733	O	PHE	697	-2.015	11.456	15.106	1.00	16.50
ATOM	4734	H	PHE	697	-1.155	11.472	14.491	1.00	13.69
ATOM	4735	N	GLU	698	-1.747	10.543	16.138	1.00	15.66
ATOM	4736	CA	GLU	698	-0.491	10.082	16.418	1.00	17.86
ATOM	4737	CE	GLU	698	-0.409	9.111	17.603	1.00	21.29
ATOM	4738	CG	GLU	698	0.951	8.822	18.090	1.00	20.05
ATOM	4739	CD	GLU	698	1.631	9.547	19.063	1.00	24.72
ATOM	4740	CE1	GLU	698	1.784	10.753	18.766	1.00	25.42
ATOM	4741	CE2	GLU	698	1.996	9.064	20.115	1.00	40.64
ATOM	4742	O	GLU	698	0.248	9.399	19.713	1.00	16.35
ATOM	4743	H	GLU	698	1.385	9.102	14.836	1.00	16.77
ATOM	4744	N	ASN	699	-0.486	8.473	14.614	1.00	15.59
ATOM	4745	CA	ASN	699	-0.653	7.443	13.471	1.00	15.22
ATOM	4746	CB	ASN	699	-0.838	6.763	13.135	1.00	14.54
ATOM	4747	CG	ASN	699	-0.743	5.366	14.538	1.00	17.51
ATOM	4748	CD1	ASN	699	0.420	5.216	14.757	1.00	15.94
ATOM	4749	ND2	ASN	699	-1.857	4.649	14.621	1.00	15.18
ATOM	4750	O	ASN	699	0.159	8.436	12.136	1.00	14.83
ATOM	4751	H	ASN	699	1.134	8.525	11.488	1.00	14.12
ATOM	4752	N	ALA	700	-0.902	9.519	12.036	1.00	14.53
ATOM	4753	CA	ALA	700	-0.710	10.341	10.830	1.00	15.69
ATOM	4754	CB	ALA	700	-1.961	11.238	10.731	1.00	14.56
ATOM	4755	O	ALA	700	0.523	11.316	11.044	1.00	15.16
ATOM	4756	H	ALA	700	1.055	11.555	13.035	1.00	14.90
ATOM	4757	N	ALA	700	0.070	11.753	12.162	1.00	15.92
ATOM	4758	CA	ALA	700	1.920	12.619	10.439	1.00	16.05
ATOM	4759	CB	ALA	700	1.886	13.291	13.530	1.00	15.03
ATOM	4760	O	ALA	700	3.073	11.756	12.134	1.00	15.03
ATOM	4761	H	ALA	700	4.184	12.509	11.730	1.00	16.55
ATOM	4762	N	THR	701	2.089	10.617	11.612	1.00	14.38
ATOM	4763	CA	THR	701	4.163	9.808	12.411	1.00	12.88
ATOM	4764	CB	THR	701	4.123	8.410	12.366	1.00	12.19
ATOM	4765	CG1	THR	701	4.334	8.512	11.354	1.00	13.71
ATOM	4766	CG2	THR	701	5.117	7.615	12.744	1.00	12.48
ATOM	4767	O	THR	701	4.862	9.817	13.338	1.00	15.73
ATOM	4768	H	THR	701	6.115	9.391	10.539	1.00	14.96
ATOM	4769	N	VAL	702	3.255	9.594	10.035	1.00	14.32
ATOM	4770	CA	VAL	702	4.261	9.434	3.585	1.00	17.34
ATOM	4771	CB	VAL	702	2.235	8.832	3.119	1.00	18.94
ATOM	4772	CG1	VAL	702	1.763	9.181	6.767	1.00	24.70
ATOM	4773	CG2	VAL	702	1.766	7.230	9.243	1.00	17.69
ATOM	4774	O	VAL	702	4.073	10.380	3.437	1.00	17.44
ATOM	4775	H	VAL	702	5.207	10.334	7.131	1.00	17.66
ATOM	4776	N	MET	703	3.705	11.335	3.112	1.00	15.75
ATOM	4777	CA	MET	703	1.913	13.246	3.333	1.00	18.71
ATOM	4778	CB	MET	703	1.936	14.211	3.615	1.00	19.63
ATOM	4779	CG	MET	703	1.461	13.939	8.163	1.00	21.43
ATOM	4780	SD	MET	703	1.016	14.229	6.517	1.00	27.09
ATOM	4781	CE	MET	703	1.229	16.272	6.434	1.00	25.37
ATOM	4782	O	MET	703	1.773	13.691	8.479	1.00	17.56
ATOM	4783	H	MET	703	6.075	14.249	7.334	1.00	13.47
ATOM	4784	N	ARG	704	5.875	13.459	9.419	1.00	14.57
ATOM	4785	CA	ARG	704	7.166	13.856	10.307	1.00	17.21
ATOM	4786	CB	ARG	704	1.434	13.597	11.149	1.00	14.12
ATOM	4787	CG	ARG	704	5.184	14.417	10.170	1.00	17.42
ATOM	4788	CD	ARG	704	7.139	14.379	13.927	1.00	18.37
ATOM	4789	NE	ARG	704	6.189	14.923	14.462	1.00	21.69
ATOM	4790	CE	ARG	704	5.169	14.247	15.377	1.00	21.26
ATOM	4791	NH1	ARG	704	4.960	13.980	15.124	1.00	23.11
ATOM	4792	NH2	ARG	704	4.340	14.830	16.125	1.00	22.67
ATOM	4793	O	ARG	704	3.196	13.194	5.193	1.00	17.67
ATOM	4794	H	ARG	704	3.336	13.568	9.127	1.00	17.74
ATOM	4795	N	ALA	705	7.207	11.341	6.382	1.00	16.11
ATOM	4796	CA	ALA	705	3.709	11.117	7.391	1.00	15.59
ATOM	4797	CB	ALA	705	3.155	9.637	7.421	1.00	14.25
ATOM	4798	O	ALA	705	3.847	11.584	6.445	1.00	15.19
ATOM	4799	H	ALA	705	6.668	11.368	5.709	1.00	15.93
ATOM	4800	N	GLY	707	8.022	12.544	6.933	1.00	14.74
ATOM	4801	CA	GLY	707	8.135	13.133	4.677	1.00	15.84
ATOM	4802	O	GLY	707	6.889	12.137	7.421	1.00	14.15

ATOM	4803	O	GLY	707	6.851	13.882	2.643	1.00	17.90
ATOM	4804	N	ALA	708	5.764	12.591	4.121	1.00	15.29
ATOM	4805	CA	ALA	708	4.509	12.675	2.198	1.00	14.65
ATOM	4806	CB	ALA	708	2.524	11.646	4.140	1.00	11.62
ATOM	4807	C	ALA	708	1.870	14.060	3.175	1.00	15.64
ATOM	4808	O	ALA	708	4.102	14.809	4.128	1.00	14.41
ATOM	4809	N	ASN	709	1.061	14.394	2.171	1.00	16.11
ATOM	4810	CA	ASN	709	1.869	15.682	2.160	1.00	14.11
ATOM	4811	CB	ASN	709	2.482	16.362	1.190	1.00	16.35
ATOM	4812	CG	ASN	709	1.905	16.548	0.151	1.00	16.07
ATOM	4813	OD1	ASN	709	4.693	17.322	1.118	1.00	16.11
ATOM	4814	ND2	ASN	709	4.246	15.951	-0.171	1.00	15.26
ATOM	4815	C	ASN	709	0.890	15.451	2.131	1.00	15.82
ATOM	4816	O	ASN	709	0.163	16.388	3.252	1.00	16.40
ATOM	4817	N	MET	710	0.448	14.712	2.179	1.00	15.10
ATOM	4818	CA	MET	710	-0.955	13.871	2.169	1.00	16.87
ATOM	4819	CB	MET	710	-1.715	14.121	1.194	1.00	15.60
ATOM	4820	CG	MET	710	-1.200	13.816	1.159	1.00	21.01
ATOM	4821	SD	MET	710	-1.944	14.057	-0.001	1.00	21.60
ATOM	4822	CE	MET	710	-4.715	15.873	0.161	1.00	21.15
ATOM	4823	C	MET	710	-1.075	13.361	1.177	1.00	16.48
ATOM	4824	O	MET	710	-0.135	11.454	3.183	1.00	14.15
ATOM	4825	N	VAL	711	-1.132	12.010	4.161	1.00	16.15
ATOM	4826	CA	VAL	711	-1.341	10.712	4.128	1.00	16.17
ATOM	4827	CB	VAL	711	-2.552	10.897	6.165	1.00	16.18
ATOM	4828	CG1	VAL	711	-1.021	9.352	6.115	1.00	21.10
ATOM	4829	CG2	VAL	711	-1.230	11.314	6.130	1.00	16.18
ATOM	4830	C	VAL	711	-1.635	10.112	2.186	1.00	16.16
ATOM	4831	O	VAL	711	-4.635	10.311	3.090	1.00	14.17
ATOM	4832	N	LYS	712	-4.631	8.440	1.170	1.00	16.14
ATOM	4833	CA	LYS	712	-4.798	8.187	2.085	1.00	14.18
ATOM	4834	CB	LYS	712	-4.445	7.101	1.148	1.00	14.18
ATOM	4835	CG	LYS	712	-5.648	6.722	1.006	1.00	16.14
ATOM	4836	CD	LYS	712	-5.475	6.173	-0.191	1.00	14.16
ATOM	4837	CE	LYS	712	-4.471	5.161	-0.170	1.00	14.16
ATOM	4838	NE	LYS	712	-4.882	4.159	-0.157	1.00	16.12
ATOM	4839	C	LYS	712	-5.371	7.160	3.060	1.00	16.19
ATOM	4840	O	LYS	712	-4.632	6.261	4.132	1.00	16.16
ATOM	4841	N	ILE	713	-7.683	7.103	4.167	1.00	16.14
ATOM	4842	CA	ILE	713	-7.349	6.168	1.160	1.00	16.14
ATOM	4843	CB	ILE	713	-7.800	6.049	6.179	1.00	16.12
ATOM	4844	CG2	ILE	713	-6.584	7.172	1.161	1.00	16.14
ATOM	4845	CG1	ILE	713	-8.667	8.173	6.172	1.00	21.13
ATOM	4846	OD1	ILE	713	-9.130	8.925	1.132	1.00	16.16
ATOM	4847	O	ILE	713	-8.553	5.645	4.151	1.00	16.14
ATOM	4848	O	ILE	713	-9.224	6.304	3.161	1.00	16.12
ATOM	4849	N	GLU	714	-8.899	4.361	4.122	1.00	16.13
ATOM	4850	CA	GLU	714	-4.917	3.641	3.195	1.00	16.17
ATOM	4851	CB	GLU	714	-4.530	2.189	3.135	1.00	16.19
ATOM	4852	CG	GLU	714	-3.183	1.991	3.174	1.00	21.16
ATOM	4853	CD	GLU	714	-7.866	0.539	2.197	1.00	21.12
ATOM	4854	DE1	GLU	714	-8.597	-0.351	3.131	1.00	21.17
ATOM	4855	DE2	GLU	714	-6.876	0.257	3.082	1.00	21.10
ATOM	4856	C	GLU	714	-11.162	3.643	4.167	1.00	16.19
ATOM	4857	O	GLU	714	-11.091	3.133	6.163	1.00	16.18
ATOM	4858	N	GLY	715	-12.304	3.910	4.256	1.00	16.12
ATOM	4859	CA	GLY	715	-13.545	3.936	5.111	1.00	21.16
ATOM	4860	C	GLY	715	-14.478	5.036	4.153	1.00	21.15
ATOM	4861	O	GLY	715	-14.963	5.993	3.155	1.00	21.19
ATOM	4862	N	GLY	716	-15.723	4.153	4.155	1.00	21.16
ATOM	4863	CA	GLY	716	-16.723	5.951	4.185	1.00	21.14
ATOM	4864	C	GLY	716	-17.198	6.933	5.131	1.00	16.18
ATOM	4865	O	GLY	716	-16.396	7.143	6.103	1.00	16.15
ATOM	4866	N	GLU	717	-18.513	2.001	5.123	1.00	21.16
ATOM	4867	CA	GLU	717	-19.143	2.923	6.157	1.00	21.16
ATOM	4868	CB	GLU	717	-19.111	2.143	6.148	1.00	21.13
ATOM	4869	CG	GLU	717	-19.111	6.143	6.154	1.00	21.16
ATOM	4870	CH	GLU	717	-19.170	9.163	6.159	1.00	21.18
ATOM	4871	OE1	GLU	717	-19.175	10.177	7.116	1.00	21.12
ATOM	4872	OE2	GLU	717	-19.183	2.957	6.125	1.00	21.12
ATOM	4873	C	GLU	717	-18.142	7.175	6.157	1.00	21.17
ATOM	4874	O	GLU	717	-18.177	8.183	6.165	1.00	21.16
ATOM	4875	N	TRP	718	-18.141	6.157	6.188	1.00	21.14
ATOM	4876	CA	TRP	718	-18.141	6.147	10.145	1.00	16.19
ATOM	4877	CB	TRP	718	-17.553	5.619	10.527	1.00	16.19
ATOM	4878	CG	TRP	718	-16.139	4.187	6.190	1.00	17.11
ATOM	4879	CH	TRP	718	-16.139	4.187	10.141	1.00	17.11

ATOM	4880	CE2	TRP	718	-14.217	5.604	9.554	1.00	17.66
ATOM	4881	CE3	TRP	718	-14.475	4.707	11.698	1.00	16.72
ATOM	4882	CD1	TRP	718	-16.260	5.780	8.677	1.00	16.47
ATOM	4883	NE1	TRP	718	-14.986	5.305	8.462	1.00	17.35
ATOM	4884	CZ2	TRP	718	-12.863	5.332	9.304	1.00	17.75
ATOM	4885	CZ3	TRP	718	-13.117	4.436	11.347	1.00	18.17
ATOM	4886	CH2	TRP	718	-12.241	5.752	11.001	1.00	18.73
ATOM	4887	C	TRP	718	-16.154	7.518	10.171	1.00	17.36
ATOM	4888	O	TRP	718	-16.165	7.691	11.04	1.00	16.36
ATOM	4889	N	LEU	719	-15.129	7.624	9.193	1.00	17.61
ATOM	4890	CA	LEU	719	-14.187	8.198	9.592	1.00	16.01
ATOM	4891	CB	LEU	719	-13.654	7.998	8.164	1.00	19.38
ATOM	4892	CG	LEU	719	-12.465	6.929	8.175	1.00	20.53
ATOM	4893	CD1	LEU	719	-12.035	6.426	7.305	1.00	20.90
ATOM	4894	CD2	LEU	719	-11.869	6.919	9.057	1.00	21.41
ATOM	4895	C	LEU	719	-14.122	9.918	9.085	1.00	16.42
ATOM	4896	O	LEU	719	-13.120	10.621	9.133	1.00	15.51
ATOM	4897	N	VAL	720	-15.038	10.421	9.125	1.00	15.73
ATOM	4898	CA	VAL	720	-16.154	11.861	9.181	1.00	16.54
ATOM	4899	CB	VAL	720	-17.064	12.101	8.174	1.00	16.36
ATOM	4900	CG1	VAL	720	-17.375	12.500	9.149	1.00	16.78
ATOM	4901	CG2	VAL	720	-18.183	12.734	7.171	1.00	15.83
ATOM	4902	C	VAL	720	-15.118	12.641	10.306	1.00	15.97
ATOM	4903	O	VAL	720	-14.113	13.137	10.045	1.00	15.83
ATOM	4904	N	GLU	721	-15.745	12.187	11.152	1.00	15.71
ATOM	4905	CA	GLU	721	-15.133	12.160	12.080	1.00	16.68
ATOM	4906	CB	GLU	721	-15.583	12.348	14.003	1.00	18.48
ATOM	4907	CG	GLU	721	-14.337	12.176	15.127	1.00	22.68
ATOM	4908	CD	GLU	721	-15.307	13.131	16.116	1.00	25.74
ATOM	4909	DE1	GLU	721	-14.866	12.121	16.132	1.00	27.93
ATOM	4910	DE2	GLU	721	-16.107	13.133	17.103	1.00	27.98
ATOM	4911	C	GLU	721	-13.610	12.133	12.066	1.00	15.34
ATOM	4912	O	GLU	721	-12.651	13.142	12.157	1.00	14.72
ATOM	4913	N	THR	722	-13.355	11.171	12.174	1.00	14.63
ATOM	4914	CA	THR	722	-11.603	11.634	12.175	1.00	14.41
ATOM	4915	CB	THR	722	-11.113	10.163	11.160	1.00	16.24
ATOM	4916	CG1	THR	722	-11.130	9.321	12.164	1.00	13.05
ATOM	4917	CG2	THR	722	-9.110	10.051	11.128	1.00	15.41
ATOM	4918	C	THR	722	-11.134	11.536	11.082	1.00	15.01
ATOM	4919	O	THR	722	-10.031	13.167	11.159	1.00	14.67
ATOM	4920	N	VAL	723	-11.103	11.806	9.154	1.00	16.05
ATOM	4921	CA	VAL	723	-11.133	13.166	8.167	1.00	15.71
ATOM	4922	CB	VAL	723	-12.168	13.136	7.182	1.00	15.17
ATOM	4923	CG1	VAL	723	-11.612	14.204	6.186	1.00	14.07
ATOM	4924	CG2	VAL	723	-11.130	11.801	7.123	1.00	15.82
ATOM	4925	C	VAL	723	-11.107	14.943	9.123	1.00	16.42
ATOM	4926	O	VAL	723	-10.153	15.693	9.073	1.00	16.04
ATOM	4927	N	GLN	724	-12.137	15.354	9.111	1.00	18.63
ATOM	4928	CA	GLN	724	-13.139	16.743	10.131	1.00	19.28
ATOM	4929	CB	GLN	724	-13.130	16.953	10.183	1.00	22.80
ATOM	4930	CG	GLN	724	-15.145	16.539	9.123	1.00	27.70
ATOM	4931	CD	GLN	724	-16.188	16.695	10.115	1.00	30.60
ATOM	4932	DE1	GLN	724	-16.169	16.241	11.116	1.00	32.97
ATOM	4933	DE2	GLN	724	-17.140	17.323	9.116	1.00	32.67
ATOM	4934	C	GLN	724	-11.113	17.132	11.141	1.00	18.09
ATOM	4935	O	GLN	724	-10.180	18.182	11.107	1.00	18.78
ATOM	4936	N	MET	725	-11.188	16.183	12.123	1.00	18.76
ATOM	4937	CA	MET	725	-10.180	16.578	13.114	1.00	18.65
ATOM	4938	CB	MET	725	-10.140	15.151	14.115	1.00	14.11
ATOM	4939	CG	MET	725	-11.153	15.153	15.116	1.00	15.16
ATOM	4940	GD	MET	725	-11.166	16.152	16.112	1.00	21.99
ATOM	4941	CE	MET	725	-10.147	15.117	17.110	1.00	16.31
ATOM	4942	C	MET	725	-9.149	16.117	12.114	1.00	14.14
ATOM	4943	O	MET	725	-8.118	17.111	13.111	1.00	14.11
ATOM	4944	N	LEU	726	-8.113	15.116	11.114	1.00	13.11
ATOM	4945	CA	LEU	726	-7.117	14.116	11.111	1.00	13.11
ATOM	4946	CB	LEU	726	-6.117	13.113	10.116	1.00	13.11
ATOM	4947	CG	LEU	726	-5.118	12.116	11.113	1.00	15.11
ATOM	4948	CD1	LEU	726	-4.118	11.116	10.112	1.00	16.11
ATOM	4949	CD2	LEU	726	-3.118	10.117	11.113	1.00	16.11
ATOM	4950	C	LEU	726	-2.113	10.116	10.114	1.00	14.11
ATOM	4951	O	LEU	726	-1.113	10.117	10.114	1.00	14.11
ATOM	4952	N	THR	727	-0.113	10.117	9.111	1.00	14.11
ATOM	4953	CA	THR	727	-0.114	10.117	9.111	1.00	21.11
ATOM	4954	CP	THR	727	-0.115	10.117	8.111	1.00	21.11
ATOM	4955	CD1	THR	727	-0.116	10.117	7.111	1.00	21.11
ATOM	4956	CD2	THR	727	-0.117	10.117	6.111	1.00	21.11

ATCM	4957	C	THR	727	-7.332	19.719	9.747	1.00	22.81
ATCM	4958	O	THR	727	-6.363	20.442	9.473	1.00	22.47
ATCM	4959	N	GLU	728	-8.143	19.968	10.769	1.00	23.34
ATCM	4960	CA	GLU	728	-7.902	21.131	11.631	1.00	25.65
ATCM	4961	CB	GLU	728	-9.052	21.331	12.613	1.00	28.40
ATCM	4962	CG	GLU	728	-9.655	20.064	13.186	1.00	30.71
ATCM	4963	CH	GLU	728	-10.801	20.348	14.119	1.00	33.19
ATCM	4964	OH1	GLU	728	-11.541	21.732	13.982	1.00	35.04
ATCM	4965	OH2	GLU	728	-10.979	19.539	15.114	1.00	32.42
ATCM	4966	C	GLU	728	-6.570	21.013	12.383	1.00	24.86
ATCM	4967	O	GLU	728	-6.669	21.994	12.898	1.00	25.47
ATCM	4968	N	ARG	729	-5.986	19.816	12.353	1.00	24.34
ATCM	4969	CA	ARG	729	-4.700	19.611	13.010	1.00	22.32
ATCM	4970	CB	ARG	729	-4.757	18.331	13.907	1.00	20.27
ATCM	4971	CG	ARG	729	-5.646	18.597	15.121	1.00	18.27
ATCM	4972	CH	ARG	729	-5.986	17.536	15.876	1.00	16.72
ATCM	4973	NE	ARG	729	-8.662	15.615	17.011	1.00	17.63
ATCM	4974	CY	ARG	729	-8.045	18.309	16.911	1.00	19.57
ATCM	4975	NH1	ARG	729	-8.621	18.334	15.725	1.00	20.67
ATCM	4976	NH2	ARG	729	-8.838	18.360	18.607	1.00	20.63
ATCM	4977	C	ARG	729	-8.554	19.324	15.604	1.00	23.25
ATCM	4978	O	ARG	729	-2.146	18.435	15.232	1.00	21.25
ATCM	4979	N	ALA	730	-3.739	20.211	10.885	1.00	22.52
ATCM	4980	CA	ALA	730	-2.732	20.134	9.681	1.00	21.37
ATCM	4981	CB	ALA	730	-1.419	20.801	10.417	1.00	20.17
ATCM	4982	C	ALA	730	-2.472	19.044	9.606	1.00	19.61
ATCM	4983	O	ALA	730	-1.474	18.929	8.301	1.00	18.36
ATCM	4984	N	VAL	731	-2.356	18.937	9.633	1.00	17.72
ATCM	4985	CA	VAL	731	-3.374	16.414	8.338	1.00	17.42
ATCM	4986	CB	VAL	731	-2.134	15.834	9.235	1.00	17.57
ATCM	4987	CG1	VAL	731	-2.985	14.334	8.363	1.00	16.76
ATCM	4988	CG2	VAL	731	-2.138	15.684	10.236	1.00	18.90
ATCM	4989	C	VAL	731	-4.114	16.673	7.153	1.00	17.98
ATCM	4990	O	VAL	731	-5.283	16.373	7.355	1.00	17.43
ATCM	4991	N	PRO	732	-3.652	16.391	5.912	1.00	17.35
ATCM	4992	CB	PRO	732	-2.351	17.314	5.475	1.00	18.31
ATCM	4993	CA	PRO	732	-4.354	16.722	4.775	1.00	18.13
ATCM	4994	CH	PRO	732	-3.771	17.325	3.637	1.00	19.15
ATCM	4995	CG	PRO	732	-2.354	17.103	4.002	1.00	23.17
ATCM	4996	C	PRO	732	-4.820	15.243	4.606	1.00	16.51
ATCM	4997	O	PRO	732	-3.427	14.415	4.737	1.00	15.21
ATCM	4998	N	VAL	733	-6.056	14.323	4.237	1.00	15.86
ATCM	4999	CA	VAL	733	-6.466	13.533	3.101	1.00	16.36
ATCM	5000	CB	VAL	733	-7.543	13.131	3.144	1.00	16.63
ATCM	5001	CG1	VAL	733	-7.463	11.699	3.069	1.00	21.38
ATCM	5002	CG2	VAL	733	-7.079	13.588	6.541	1.00	17.55
ATCM	5003	C	VAL	733	-7.039	13.185	2.737	1.00	16.46
ATCM	5004	O	VAL	733	-7.403	13.351	2.160	1.00	16.24
ATCM	5005	N	CYS	734	-6.668	13.310	2.342	1.00	13.15
ATCM	5006	CA	CYS	734	-7.184	11.490	0.983	1.00	13.30
ATCM	5007	CB	CYS	734	-6.051	10.957	0.170	1.00	11.32
ATCM	5008	SG	CYS	734	-6.600	10.169	-1.355	1.00	15.01
ATCM	5009	C	CYS	734	-8.075	10.324	1.397	1.00	14.24
ATCM	5010	O	CYS	734	-7.641	3.453	2.150	1.00	16.01
ATCM	5011	N	GLY	735	-9.314	10.323	0.521	1.00	13.93
ATCM	5012	CA	GLY	735	-10.129	3.150	1.146	1.00	13.47
ATCM	5013	C	GLY	735	-9.435	8.149	0.122	1.00	14.63
ATCM	5014	O	GLY	735	-9.314	8.174	-0.430	1.00	15.25
ATCM	5015	N	HIS	736	-10.817	6.346	0.493	1.00	14.52
ATCM	5016	CA	HIS	736	-10.184	5.136	-0.316	1.00	14.30
ATCM	5017	CB	HIS	736	-9.289	4.938	0.411	1.00	15.08
ATCM	5018	CG	HIS	736	-9.336	3.737	-0.342	1.00	14.75
ATCM	5019	CH	HIS	736	-9.319	3.712	-1.311	1.00	15.47
ATCM	5020	NH1	HIS	736	-7.859	4.287	-0.388	1.00	14.44
ATCM	5021	NH2	HIS	736	-7.459	3.236	-1.382	1.00	16.58
ATCM	5022	NE2	HIS	736	-8.645	2.045	-1.354	1.00	16.34
ATCM	5023	C	HIS	736	-11.768	4.919	-0.689	1.00	13.44
ATCM	5024	O	HIS	736	-11.096	4.441	-1.800	1.00	14.94
ATCM	5025	N	LEU	737	-11.499	4.757	-1.348	1.00	14.18
ATCM	5026	CA	LEU	737	-11.358	4.588	-1.115	1.00	13.88
ATCM	5027	CB	LEU	737	-14.344	4.282	-1.415	1.00	14.66
ATCM	5028	CG	LEU	737	-13.710	6.036	-0.776	1.00	13.33
ATCM	5029	CH	LEU	737	-14.249	7.044	-0.307	1.00	13.74
ATCM	5030	CD	LEU	737	-19.695	5.339	-0.939	1.00	13.41
ATCM	5031	C	LEU	737	-11.776	3.992	-0.373	1.00	13.17
ATCM	5032	O	LEU	737	-11.767	3.147	-0.345	1.00	13.11
ATCM	5033	N	GLY	738	-14.714	3.100	-0.110	1.00	13.48

ATOM	5034	CA	GLY	738	-14.872	1.006	-3.209	1.00	22.29
ATOM	5035	C	GLY	738	-14.114	-0.215	-2.623	1.00	23.99
ATOM	5036	O	GLY	738	-14.442	-0.588	-1.487	1.00	23.25
ATOM	5037	N	LEU	739	-13.247	-0.822	-3.390	1.00	25.38
ATOM	5038	CA	LEU	739	-12.517	-1.299	-2.941	1.00	25.53
ATOM	5039	CB	LEU	739	-11.915	-2.731	-4.152	1.00	26.77
ATOM	5040	CG	LEU	739	-11.646	-4.130	-4.632	1.00	28.17
ATOM	5041	CD1	LEU	739	-10.971	-4.712	-5.291	1.00	29.59
ATOM	5042	CD2	LEU	739	-10.849	-4.108	-2.804	1.00	27.42
ATOM	5043	C	LEU	739	-11.413	-1.160	-1.498	1.00	26.30
ATOM	5044	O	LEU	739	-10.331	-1.173	-2.443	1.00	27.35
ATOM	5045	N	THR	740	-11.636	-1.605	-0.697	1.00	25.51
ATOM	5046	CA	THR	740	-10.738	-1.316	0.319	1.00	26.33
ATOM	5047	CB	THR	740	-11.349	-0.547	1.514	1.00	25.97
ATOM	5048	OG1	THR	740	-12.545	-1.372	1.852	1.00	26.66
ATOM	5049	CG2	THR	740	-11.743	0.486	1.170	1.00	29.04
ATOM	5050	C	THR	740	-9.946	-2.387	0.794	1.00	25.33
ATOM	5051	O	THR	740	-10.512	-3.152	1.594	1.00	26.67
ATOM	5052	N	PRO	741	-8.748	-2.704	0.312	1.00	25.16
ATOM	5053	CD	PRO	741	-8.071	-1.177	-0.510	1.00	26.73
ATOM	5054	CA	PRO	741	-7.979	-3.227	0.441	1.00	23.15
ATOM	5055	CB	PRO	741	-6.564	-3.142	-0.066	1.00	25.11
ATOM	5056	CG	PRO	741	-6.549	-2.149	-0.144	1.00	28.40
ATOM	5057	C	PRO	741	-7.736	-4.123	0.111	1.00	29.47
ATOM	5058	O	PRO	741	-7.940	-5.397	2.341	1.00	20.73
ATOM	5059	N	GLN	742	-7.553	-3.741	3.003	1.00	19.94
ATOM	5060	CA	GLN	742	-7.677	-3.156	4.425	1.00	18.12
ATOM	5061	CB	GLN	742	-7.516	-2.173	5.048	1.00	18.12
ATOM	5062	CG	GLN	742	-6.168	-1.148	5.237	1.00	19.12
ATOM	5063	CD	GLN	742	-6.277	-0.145	5.799	1.00	21.54
ATOM	5064	OE1	GLN	742	-6.713	0.146	6.722	1.00	23.73
ATOM	5065	NE2	GLN	742	-5.150	0.413	5.258	1.00	18.03
ATOM	5066	C	GLN	742	-8.413	-4.148	4.916	1.00	17.75
ATOM	5067	O	GLN	742	-8.359	-5.112	5.826	1.00	17.97
ATOM	5068	N	SER	743	-9.277	-4.119	4.296	1.00	16.09
ATOM	5069	CA	SER	743	-11.171	-4.000	4.873	1.00	13.46
ATOM	5070	CB	SER	743	-12.412	-4.183	4.535	1.00	14.12
ATOM	5071	CG	SER	743	-12.109	-3.142	5.173	1.00	15.51
ATOM	5072	O	SER	743	-11.347	-4.212	3.849	1.00	18.63
ATOM	5073	C	SER	743	-12.358	-6.242	3.723	1.00	19.39
ATOM	5074	N	VAL	744	-10.152	-6.712	3.291	1.00	17.52
ATOM	5075	CA	VAL	744	-10.120	-7.919	2.483	1.00	18.17
ATOM	5076	CB	VAL	744	-8.800	-8.442	2.066	1.00	20.91
ATOM	5077	CG1	VAL	744	-8.372	-8.777	3.294	1.00	20.41
ATOM	5078	CG2	VAL	744	-9.104	-9.617	1.126	1.00	21.66
ATOM	5079	C	VAL	744	-11.361	-9.045	3.206	1.00	18.57
ATOM	5080	O	VAL	744	-11.673	-9.746	2.594	1.00	17.85
ATOM	5081	N	ASN	745	-10.801	-9.267	4.591	1.00	18.34
ATOM	5082	CA	ASN	745	-11.451	-10.337	5.256	1.00	18.99
ATOM	5083	CB	ASN	745	-10.783	-10.501	6.624	1.00	18.10
ATOM	5084	CG	ASN	745	-9.306	-10.325	6.505	1.00	18.24
ATOM	5085	OD1	ASN	745	-8.931	-11.911	6.055	1.00	16.42
ATOM	5086	ND2	ASN	745	-8.462	-9.332	6.890	1.00	16.58
ATOM	5087	C	ASN	745	-12.947	-10.130	5.426	1.00	19.36
ATOM	5088	O	ASN	745	-12.018	-11.040	5.590	1.00	18.34
ATOM	5089	N	ILE	746	-13.352	-8.835	5.395	1.00	21.95
ATOM	5090	CA	ILE	746	-14.259	-8.474	5.512	1.00	24.03
ATOM	5091	CB	ILE	746	-14.928	-6.955	5.722	1.00	25.51
ATOM	5092	CG2	ILE	746	-16.393	-6.576	5.577	1.00	27.38
ATOM	5093	CD1	ILE	746	-14.406	-6.552	3.199	1.00	25.93
ATOM	5094	CD1	ILE	746	-15.274	-7.033	8.141	1.00	23.57
ATOM	5095	C	ILE	746	-15.481	-8.440	4.754	1.00	25.31
ATOM	5096	O	ILE	746	-16.510	-9.533	4.174	1.00	14.42
ATOM	5097	N	PHE	747	-14.927	-8.459	3.358	1.00	26.24
ATOM	5098	CA	PHE	747	-15.571	-8.147	1.794	1.00	25.67
ATOM	5099	CB	PHE	747	-14.506	-7.859	6.710	1.00	30.22
ATOM	5100	CG	PHE	747	-14.863	-4.190	1.575	1.00	28.11
ATOM	5101	CD1	PHE	747	-16.606	-5.139	1.504	1.00	28.47
ATOM	5102	CD2	PHE	747	-13.620	-9.172	3.104	1.00	34.95
ATOM	5103	OE1	PHE	747	-15.870	-4.198	1.815	1.00	28.55
ATOM	5104	OE2	PHE	747	-13.621	-4.115	1.145	1.00	35.40
ATOM	5105	CZ	PHE	747	-14.729	-3.639	1.183	1.00	28.13
ATOM	5106	N	PHE	747	-15.343	-10.103	1.412	1.00	29.09
ATOM	5107	O	PHE	747	-16.541	-10.742	1.582	1.00	26.25
ATOM	5108	N	GLY	748	-14.717	-10.637	2.000	1.00	29.09
ATOM	5109	CA	GLY	748	-14.117	-11.215	1.178	1.00	27.11
ATOM	5110	C	GLY	748	-13.487	-10.817	0.177	1.00	27.11

ATOM	5111	O	GLY	748	-12.228	-13.354	-0.253	1.00	33.17
ATOM	5112	N	GLY	749	-12.400	-11.309	0.184	1.00	30.50
ATOM	5113	CA	GLY	749	-11.529	-11.709	-0.985	1.00	31.40
ATOM	5114	C	GLY	749	-11.590	-9.973	-1.705	1.00	33.32
ATOM	5115	O	GLY	749	-11.279	-9.030	-1.269	1.00	31.79
ATOM	5116	N	TYR	750	-10.857	-8.852	-2.807	1.00	33.78
ATOM	5117	CA	TYR	750	-10.839	-8.626	-3.374	1.00	35.38
ATOM	5118	CB	TYR	750	-9.440	-8.377	-4.133	1.00	36.26
ATOM	5119	CG	TYR	750	-8.561	-8.445	-3.076	1.00	38.04
ATOM	5120	CD1	TYR	750	-7.861	-9.674	-2.639	1.00	39.14
ATOM	5121	CE1	TYR	750	-6.886	-9.742	-1.644	1.00	39.33
ATOM	5122	CD2	TYR	750	-7.858	-7.793	-2.490	1.00	38.32
ATOM	5123	CE2	TYR	750	-6.886	-7.339	-1.493	1.00	39.18
ATOM	5124	CE	TYR	750	-6.404	-8.169	-1.077	1.00	39.12
ATOM	5125	OH	TYR	750	-5.441	-8.826	-0.036	1.00	39.26
ATOM	5126	C	TYR	750	-11.856	-8.715	-4.735	1.00	35.70
ATOM	5127	O	TYR	750	-11.591	-9.304	-5.153	1.00	36.11
ATOM	5128	N	LYS	751	-13.025	-8.127	-4.430	1.00	35.48
ATOM	5129	CA	LYS	751	-14.048	-8.156	-5.463	1.00	36.67
ATOM	5130	CB	LYS	751	-13.335	-8.489	-4.911	1.00	38.25
ATOM	5131	CG	LYS	751	-14.311	-10.343	-4.381	1.00	40.62
ATOM	5132	CE	LYS	751	-13.370	-10.470	-3.466	1.00	42.19
ATOM	5133	CF	LYS	751	-13.344	-12.343	-2.332	1.00	43.21
ATOM	5134	NZ	LYS	751	-16.334	-12.339	-1.954	1.00	42.36
ATOM	5135	C	LYS	751	-14.339	-6.741	-5.283	1.00	36.34
ATOM	5136	O	LYS	751	-14.371	-5.319	-4.393	1.00	36.35
ATOM	5137	N	VAL	752	-15.194	-6.373	-6.347	1.00	36.26
ATOM	5138	CA	VAL	752	-15.687	-5.264	-7.357	1.00	36.79
ATOM	5139	CB	VAL	752	-16.196	-5.294	-8.316	1.00	36.17
ATOM	5140	CG1	VAL	752	-16.794	-3.443	-9.191	1.00	36.49
ATOM	5141	CG2	VAL	752	-15.057	-9.841	-6.753	1.00	35.32
ATOM	5142	C	VAL	752	-16.826	-4.784	-6.461	1.00	36.46
ATOM	5143	O	VAL	752	-17.758	-5.133	-6.177	1.00	36.58
ATOM	5144	N	GLN	753	-16.740	-3.433	-8.018	1.00	36.02
ATOM	5145	CA	GLN	753	-17.772	-2.443	-5.169	1.00	36.48
ATOM	5146	CB	GLN	753	-17.156	-2.119	-4.215	1.00	37.30
ATOM	5147	CG	GLN	753	-17.031	-2.264	-3.233	1.00	37.32
ATOM	5148	CD	GLN	753	-15.996	-4.345	-2.946	1.00	34.63
ATOM	5149	OE1	GLN	753	-14.816	-4.755	-3.155	1.00	36.32
ATOM	5150	NE2	GLN	753	-16.428	-5.660	-2.589	1.00	34.11
ATOM	5151	C	GLN	753	-16.540	-1.475	-3.937	1.00	35.82
ATOM	5152	O	GLN	753	-16.138	-1.474	-3.028	1.00	34.76
ATOM	5153	N	ILE	754	-19.645	-1.417	-5.361	1.00	36.54
ATOM	5154	CA	ILE	754	-20.446	-0.497	-6.015	1.00	37.86
ATOM	5155	C	ILE	754	-21.571	-0.979	-6.843	1.00	38.60
ATOM	5156	O	ILE	754	-22.158	-0.301	-7.136	1.00	38.37
ATOM	5157	N	ARG	755	-21.413	-2.246	-7.127	1.00	40.53
ATOM	5158	CA	ARG	755	-22.405	-2.948	-8.037	1.00	42.45
ATOM	5159	CB	ARG	755	-21.018	-4.428	-8.145	1.00	41.43
ATOM	5160	CG	ARG	755	-20.750	-4.911	-8.991	1.00	44.60
ATOM	5161	CD	ARG	755	-21.069	-4.427	-10.413	1.00	44.87
ATOM	5162	NE	ARG	755	-19.883	-5.181	-11.242	1.00	44.58
ATOM	5163	CZ	ARG	755	-19.041	-6.196	-11.066	1.00	45.22
ATOM	5164	NH1	ARG	755	-19.246	-7.072	-10.090	1.00	45.18
ATOM	5165	NH2	ARG	755	-16.001	-6.343	-11.876	1.00	44.29
ATOM	5166	C	ARG	755	-23.788	-2.326	-7.339	1.00	41.83
ATOM	5167	O	ARG	755	-23.990	-1.237	-6.257	1.00	41.19
ATOM	5168	N	GLY	756	-24.734	-2.257	-6.139	1.00	41.66
ATOM	5169	CA	GLY	756	-25.079	-2.193	-7.617	1.00	43.45
ATOM	5170	C	GLY	756	-25.404	-0.866	-7.134	1.00	41.42
ATOM	5171	O	GLY	756	-25.510	0.087	-6.827	1.00	41.35
ATOM	5172	N	ASP	757	-25.743	-6.872	-7.113	1.00	41.36
ATOM	5173	CA	ASP	757	-26.151	0.944	-6.704	1.00	41.65
ATOM	5174	CB	ASP	757	-26.643	1.045	-6.011	1.00	41.38
ATOM	5175	CG	ASP	757	-26.854	0.982	-6.477	1.00	51.49
ATOM	5176	CD	ASP	757	-26.420	1.648	-6.311	1.00	51.37
ATOM	5177	OD1	ASP	757	-30.775	-0.031	-8.795	1.00	51.94
ATOM	5178	O	ASP	757	-32.898	1.188	-8.211	1.00	41.67
ATOM	5179	C	ASP	757	-27.443	1.264	-4.827	1.00	43.09
ATOM	5180	N	GLU	758	-28.193	3.167	-4.338	1.00	43.15
ATOM	5181	CA	GLU	758	-27.968	0.403	-3.956	1.00	41.44
ATOM	5182	CB	GLU	758	-28.233	-1.513	-3.207	1.00	43.32
ATOM	5183	CG	GLU	758	-28.241	-0.465	-6.744	1.00	47.39
ATOM	5184	CH	GLU	758	-27.797	-2.259	-6.123	1.00	43.85
ATOM	5185	CE1	GLU	758	-28.446	-3.298	-6.380	1.00	50.43
ATOM	5186	CE2	GLU	758	-28.123	-2.747	-7.137	1.00	51.14
ATOM	5187	C	GLU	758	-28.733	-2.653	-7.653	1.00	50.44

ATOM	5188	O	GLU	758	-26.242	1.628	-1.956	1.00	37.55
ATOM	5189	N	ALA	759	-25.622	-0.169	-2.130	1.00	37.40
ATOM	5190	CA	ALA	759	-24.191	0.037	-2.331	1.00	34.93
ATOM	5191	CB	ALA	759	-23.420	-1.141	-3.568	1.00	35.45
ATOM	5192	C	ALA	759	-23.735	1.731	-3.679	1.00	34.03
ATOM	5193	O	ALA	759	-22.793	2.114	-1.915	1.00	31.60
ATOM	5194	N	GLY	760	-24.182	1.541	-4.370	1.00	31.34
ATOM	5195	CA	GLY	760	-23.319	2.735	-5.630	1.00	29.95
ATOM	5196	C	GLY	760	-24.143	4.016	-4.345	1.00	29.45
ATOM	5197	O	GLY	760	-23.272	4.766	-4.674	1.00	28.24
ATOM	5198	N	ASP	761	-25.396	4.150	-4.413	1.00	28.80
ATOM	5199	CA	ASP	761	-25.240	5.335	-3.711	1.00	28.80
ATOM	5200	CB	ASP	761	-27.343	5.148	-3.415	1.00	29.11
ATOM	5201	CG	ASP	761	-28.193	5.146	-4.676	1.00	29.47
ATOM	5202	OD1	ASP	761	-27.664	5.776	-5.772	1.00	29.15
ATOM	5203	OD2	ASP	761	-29.400	4.745	-4.576	1.00	21.42
ATOM	5204	C	ASP	761	-25.070	5.494	-2.411	1.00	28.73
ATOM	5205	O	ASP	761	-24.402	6.112	-1.962	1.00	26.21
ATOM	5206	N	GLN	762	-24.717	4.769	-1.793	1.00	28.59
ATOM	5207	CA	GLN	762	-23.970	4.796	-0.517	1.00	28.42
ATOM	5208	CB	GLN	762	-23.458	5.788	-0.013	1.00	29.13
ATOM	5209	CG	GLN	762	-24.139	6.731	1.373	1.00	22.27
ATOM	5210	CT	GLN	762	-23.545	7.760	2.373	1.00	13.49
ATOM	5211	OE1	GLN	762	-24.663	8.118	2.867	1.00	14.73
ATOM	5212	NE2	GLN	762	-22.712	8.735	2.767	1.00	13.33
ATOM	5213	C	GLN	762	-23.571	8.773	-0.764	1.00	26.19
ATOM	5214	O	GLN	762	-22.091	9.757	0.061	1.00	14.34
ATOM	5215	N	LEU	763	-21.747	4.778	-1.841	1.00	23.52
ATOM	5216	CA	LEU	763	-20.575	5.078	-2.135	1.00	17.24
ATOM	5217	CB	LEU	763	-19.771	4.749	-3.137	1.00	18.71
ATOM	5218	CG	LEU	763	-19.364	2.760	-2.072	1.00	20.33
ATOM	5219	CD1	LEU	763	-20.850	2.757	-4.773	1.00	31.63
ATOM	5220	CD2	LEU	763	-18.224	2.787	-2.071	1.00	20.71
ATOM	5221	O	LEU	763	-22.602	3.776	-1.416	1.00	14.34
ATOM	5222	C	LEU	763	-19.725	2.719	-1.974	1.00	20.25
ATOM	5223	N	LEU	764	-21.716	2.713	-3.134	1.00	14.14
ATOM	5224	CA	LEU	764	-21.761	3.724	-3.435	1.00	14.45
ATOM	5225	CB	LEU	764	-22.988	3.732	-4.730	1.00	14.40
ATOM	5226	CG	LEU	764	-22.310	2.711	-5.461	1.00	16.78
ATOM	5227	CD1	LEU	764	-24.307	3.755	-6.006	1.00	17.16
ATOM	5228	CD2	LEU	764	-22.323	19.788	-4.906	1.00	26.33
ATOM	5229	C	LEU	764	-21.326	3.716	-2.192	1.00	22.36
ATOM	5230	O	LEU	764	-21.257	19.725	-1.978	1.00	21.39
ATOM	5231	N	SER	765	-22.823	3.748	-1.530	1.00	22.67
ATOM	5232	CA	SER	765	-23.064	3.715	-0.055	1.00	21.77
ATOM	5233	CB	SER	765	-24.134	3.676	3.745	1.00	21.69
ATOM	5234	CG	SER	765	-24.403	3.355	1.955	1.00	24.43
ATOM	5235	C	SER	765	-21.779	3.786	0.766	1.00	20.68
ATOM	5236	O	SER	765	-21.459	10.527	1.137	1.00	18.30
ATOM	5237	N	ASP	766	-21.050	3.773	0.812	1.00	19.16
ATOM	5238	CA	ASP	766	-19.801	3.738	1.785	1.00	19.55
ATOM	5239	CB	ASP	766	-19.213	6.917	1.723	1.00	19.61
ATOM	5240	CG	ASP	766	-19.907	6.911	2.743	1.00	23.80
ATOM	5241	OD1	ASP	766	-26.473	6.524	3.712	1.00	20.16
ATOM	5242	OD2	ASP	766	-19.863	4.774	2.758	1.00	24.68
ATOM	5243	C	ASP	766	-18.768	9.295	0.793	1.00	17.74
ATOM	5244	O	ASP	766	-18.074	9.998	1.717	1.00	17.68
ATOM	5245	N	ALA	767	-18.666	3.321	-0.732	1.00	18.82
ATOM	5246	CA	ALA	767	-17.798	10.200	-0.793	1.00	19.71
ATOM	5247	CB	ALA	767	-17.759	3.492	-2.761	1.00	18.07
ATOM	5248	C	ALA	767	-17.992	11.658	-0.747	1.00	16.35
ATOM	5249	O	ALA	767	-17.781	11.408	-0.789	1.00	15.25
ATOM	5250	N	LEU	768	-19.269	11.052	-0.735	1.00	18.76
ATOM	5251	CA	LEU	768	-19.674	11.421	-0.707	1.00	18.68
ATOM	5252	CB	LEU	768	-21.150	11.617	-0.736	1.00	19.27
ATOM	5253	CG	LEU	768	-21.499	11.719	-0.731	1.00	19.86
ATOM	5254	CD1	LEU	768	-23.931	11.536	-2.748	1.00	16.38
ATOM	5255	CD2	LEU	768	-21.036	15.068	-2.713	1.00	21.35
ATOM	5256	C	LEU	768	-18.445	13.744	1.733	1.00	16.46
ATOM	5257	O	LEU	768	-18.117	14.839	1.732	1.00	18.53
ATOM	5258	N	ALA	769	-19.669	12.747	1.766	1.00	15.98
ATOM	5259	CA	ALA	769	-18.567	12.937	1.319	1.00	16.17
ATOM	5260	CB	ALA	769	-20.038	11.726	4.067	1.00	17.97
ATOM	5261	C	ALA	769	-18.333	13.166	1.661	1.00	14.89
ATOM	5262	O	ALA	769	-18.714	12.990	4.919	1.00	16.01
ATOM	5263	N	LEU	770	-17.147	12.443	1.777	1.00	14.73
ATOM	5264	CA	LEU	770	-15.718	12.577	3.211	1.00	14.38

ATOM	5265	CB	LEU	770	-14.947	11.464	2.482	1.00	13.69
ATOM	5266	CG	LEU	770	-15.159	10.031	2.022	1.00	14.90
ATOM	5267	CD1	LEU	770	-14.652	8.989	2.028	1.00	14.19
ATOM	5268	CD2	LEU	770	-14.479	9.898	4.346	1.00	14.20
ATOM	5269	C	LEU	770	-15.250	13.940	1.713	1.00	14.23
ATOM	5270	O	LEU	770	-14.387	14.585	3.319	1.00	15.75
ATOM	5271	N	GLU	771	-15.326	14.785	1.601	1.00	15.65
ATOM	5272	CA	GLU	771	-15.457	15.635	1.049	1.00	14.95
ATOM	5273	CB	GLU	771	-16.126	15.892	-0.311	1.00	15.82
ATOM	5274	CG	GLU	771	-15.885	17.276	-0.887	1.00	14.20
ATOM	5275	CD	GLU	771	-16.600	17.431	-2.261	1.00	15.85
ATOM	5276	OE1	GLU	771	-17.837	17.270	-2.743	1.00	15.35
ATOM	5277	OE2	GLU	771	-15.921	17.824	-3.184	1.00	15.38
ATOM	5278	C	GLU	771	-15.874	16.793	2.015	1.00	15.89
ATOM	5279	O	GLU	771	-15.097	17.714	2.701	1.00	15.83
ATOM	5280	N	ALA	772	-17.104	16.696	2.512	1.00	15.85
ATOM	5281	CA	ALA	772	-17.653	17.677	3.449	1.00	17.16
ATOM	5282	CB	ALA	772	-19.123	17.584	1.095	1.00	16.98
ATOM	5283	C	ALA	772	-18.596	17.678	4.756	1.00	18.66
ATOM	5284	O	ALA	772	-16.355	18.695	5.432	1.00	17.11
ATOM	5285	N	ALA	772	-16.334	16.533	5.115	1.00	18.43
ATOM	5286	CA	ALA	772	-15.536	16.592	6.758	1.00	18.31
ATOM	5287	CB	ALA	772	-15.239	14.808	6.480	1.00	17.94
ATOM	5288	C	ALA	772	-14.150	17.067	6.263	1.00	17.55
ATOM	5289	O	ALA	772	-13.539	17.258	7.084	1.00	18.73
ATOM	5290	N	GLY	773	-13.714	17.509	5.940	1.00	17.75
ATOM	5291	CA	GLY	773	-12.314	17.954	4.352	1.00	18.12
ATOM	5292	C	GLY	773	-11.431	17.131	3.013	1.00	18.01
ATOM	5293	O	GLY	773	-10.385	17.796	3.600	1.00	18.07
ATOM	5294	N	ALA	773	-11.736	16.048	3.431	1.00	18.01
ATOM	5295	CA	ALA	773	-10.933	15.708	2.646	1.00	18.38
ATOM	5296	CB	ALA	773	-11.313	13.936	2.134	1.00	18.63
ATOM	5297	C	ALA	773	-10.610	16.171	1.308	1.00	18.18
ATOM	5298	O	ALA	773	-11.534	16.705	0.708	1.00	14.75
ATOM	5299	N	GLN	774	-9.337	16.170	0.324	1.00	13.50
ATOM	5300	CA	GLN	774	-8.334	17.171	-0.130	1.00	16.43
ATOM	5301	CB	GLN	774	-7.335	17.892	0.129	1.00	15.10
ATOM	5302	CG	GLN	774	-7.338	18.316	1.383	1.00	15.82
ATOM	5303	CD	GLN	774	-6.338	19.137	1.247	1.00	15.39
ATOM	5304	OE1	GLN	774	-6.332	20.121	0.384	1.00	24.99
ATOM	5305	NE2	GLN	774	-6.335	19.135	3.007	1.00	21.74
ATOM	5306	C	GLN	774	-8.337	16.133	-1.474	1.00	15.17
ATOM	5307	O	GLN	774	-8.344	16.768	-2.327	1.00	14.82
ATOM	5308	N	LEU	777	-8.337	14.918	-1.310	1.00	15.85
ATOM	5309	CA	LEU	777	-8.337	13.930	-2.419	1.00	15.20
ATOM	5310	CB	LEU	777	-7.337	13.873	-2.562	1.00	16.16
ATOM	5311	CG	LEU	777	-6.334	14.119	-3.669	1.00	22.55
ATOM	5312	CD1	LEU	777	-4.336	13.347	-4.129	1.00	20.46
ATOM	5313	CD2	LEU	777	-6.332	13.731	-4.042	1.00	23.78
ATOM	5314	C	LEU	777	-9.316	12.317	-3.125	1.00	15.97
ATOM	5315	O	LEU	777	-9.310	12.313	-1.366	1.00	13.13
ATOM	5316	N	LEU	778	-9.334	11.351	-3.163	1.00	15.83
ATOM	5317	CA	LEU	778	-10.335	10.101	-1.879	1.00	14.56
ATOM	5318	CB	LEU	778	-11.331	10.337	-3.176	1.00	13.31
ATOM	5319	CG	LEU	778	-12.332	9.333	-1.192	1.00	14.97
ATOM	5320	CD1	LEU	778	-12.336	8.333	-1.406	1.00	15.37
ATOM	5321	CD2	LEU	778	-14.330	7.333	-1.603	1.00	15.98
ATOM	5322	C	LEU	778	-9.332	8.333	-1.955	1.00	17.36
ATOM	5323	O	LEU	778	-9.331	9.333	-1.150	1.00	16.74
ATOM	5324	N	VAL	779	-9.339	8.450	-1.449	1.00	13.31
ATOM	5325	CA	VAL	779	-9.335	7.338	-4.235	1.00	15.20
ATOM	5326	CB	VAL	779	-8.339	6.328	-3.694	1.00	16.52
ATOM	5327	CD1	VAL	779	-7.335	5.332	-4.569	1.00	14.33
ATOM	5328	CD2	VAL	779	-6.334	7.354	-1.730	1.00	15.57
ATOM	5329	C	VAL	779	-10.335	6.353	-4.416	1.00	15.16
ATOM	5330	O	VAL	779	-11.331	6.332	-5.439	1.00	14.36
ATOM	5331	N	LEU	780	-10.333	5.982	-5.632	1.00	16.87
ATOM	5332	CA	LEU	780	-11.334	5.994	-5.402	1.00	14.23
ATOM	5333	CB	LEU	780	-12.337	5.737	-4.937	1.00	20.80
ATOM	5334	CG	LEU	780	-14.339	6.199	-4.413	1.00	24.41
ATOM	5335	CD1	LEU	780	-15.337	6.367	-7.588	1.00	22.61
ATOM	5336	CD2	LEU	780	-14.941	5.946	-5.477	1.00	24.16
ATOM	5337	C	LEU	780	-11.263	5.341	-6.535	1.00	17.70
ATOM	5338	O	LEU	780	-10.617	5.917	-7.580	1.00	18.78
ATOM	5339	N	GLY	781	-11.485	2.693	-5.835	1.00	17.11
ATOM	5340	CA	GLY	781	-10.913	1.434	-7.733	1.00	18.43
ATOM	5341	CB	GLY	781	-9.337	0.857	-5.374	1.00	19.39

ATOM	5342	CG	GLU	781	-9.242	-0.416	-5.728	1.00	19.49
ATOM	5343	CD	GLU	781	-8.175	-0.831	-4.735	1.00	23.53
ATOM	5344	OE1	GLU	781	-7.901	-0.070	-3.781	1.00	21.13
ATOM	5345	OE2	GLU	781	-7.597	-1.925	-4.921	1.00	25.81
ATOM	5346	C	GLU	781	-11.923	0.370	-6.808	1.00	20.03
ATOM	5347	O	GLU	781	-12.887	0.291	-6.087	1.00	21.13
ATOM	5348	N	CYS	782	-11.751	-0.207	-7.966	1.00	21.54
ATOM	5349	CA	CYS	782	-12.537	-7.160	-8.555	1.00	21.35
ATOM	5350	CB	CYS	782	-12.571	-2.623	-8.037	1.00	22.48
ATOM	5351	SG	CYS	782	-10.367	-2.991	-8.514	1.00	22.47
ATOM	5352	C	CYS	782	-14.053	-1.276	-8.314	1.00	25.30
ATOM	5353	O	CYS	782	-14.673	-1.783	-7.465	1.00	21.95
ATOM	5354	N	VAL	783	-14.586	-0.163	-9.088	1.00	24.52
ATOM	5355	CA	VAL	783	-15.988	0.133	-9.016	1.00	26.91
ATOM	5356	CB	VAL	783	-16.173	1.481	-8.189	1.00	24.96
ATOM	5357	CG1	VAL	783	-15.624	2.685	-8.975	1.00	26.79
ATOM	5358	CG2	VAL	783	-17.623	1.887	-7.843	1.00	32.62
ATOM	5359	C	VAL	783	-16.434	0.300	-10.467	1.00	26.27
ATOM	5360	O	VAL	783	-15.628	0.711	-11.316	1.00	26.44
ATOM	5361	N	PRO	784	-17.771	0.082	-13.770	1.00	26.22
ATOM	5362	CA	PRO	784	-18.791	-0.475	-8.911	1.00	27.16
ATOM	5363	CB	PRO	784	-18.177	0.274	-12.146	1.00	26.47
ATOM	5364	CP	PRO	784	-19.671	-0.087	-13.090	1.00	26.76
ATOM	5365	CG	PRO	784	-20.003	0.110	-10.617	1.00	25.94
ATOM	5366	C	PRO	784	-17.903	1.675	-12.644	1.00	26.67
ATOM	5367	O	PRO	784	-18.053	2.610	-11.897	1.00	27.09
ATOM	5368	N	VAL	785	-17.503	1.708	-13.908	1.00	26.20
ATOM	5369	CA	VAL	785	-17.191	3.033	-14.517	1.00	26.42
ATOM	5370	CB	VAL	785	-16.897	2.902	-16.014	1.00	26.92
ATOM	5371	CG1	VAL	785	-16.453	4.231	-16.602	1.00	27.38
ATOM	5372	CG2	VAL	785	-15.821	1.805	-16.231	1.00	26.59
ATOM	5373	C	VAL	785	-18.287	1.115	-14.317	1.00	26.76
ATOM	5374	O	VAL	785	-18.021	5.214	-13.939	1.00	23.64
ATOM	5375	N	GLU	786	-19.513	2.705	-14.684	1.00	26.86
ATOM	5376	CA	GLU	786	-20.633	1.838	-14.511	1.00	26.47
ATOM	5377	CB	GLU	786	-21.553	3.096	-14.959	1.00	26.58
ATOM	5378	CG	GLU	786	-21.951	1.441	-14.909	1.00	33.38
ATOM	5379	CD	GLU	786	-21.021	1.870	-16.911	1.00	33.35
ATOM	5380	OE1	GLU	786	-21.064	2.234	-13.113	1.00	35.73
ATOM	5381	OE2	GLU	786	-20.257	0.910	-15.578	1.00	35.70
ATOM	5382	C	GLU	786	-20.952	5.203	-13.127	1.00	25.79
ATOM	5383	O	GLU	786	-21.142	6.335	-12.933	1.00	23.13
ATOM	5384	N	LEU	787	-20.400	4.139	-12.130	1.00	25.85
ATOM	5385	CA	LEU	787	-20.470	4.854	-10.714	1.00	24.33
ATOM	5386	CB	LEU	787	-20.375	3.681	-9.797	1.00	27.24
ATOM	5387	CG	LEU	787	-20.703	3.826	-8.530	1.00	23.42
ATOM	5388	CD1	LEU	787	-20.939	2.539	-7.635	1.00	30.34
ATOM	5389	CD2	LEU	787	-19.666	4.621	-7.631	1.00	30.31
ATOM	5390	C	LEU	787	-19.338	5.816	-10.481	1.00	24.13
ATOM	5391	O	LEU	787	-19.519	6.834	-9.784	1.00	21.41
ATOM	5392	N	ALA	788	-18.171	5.474	-11.067	1.00	23.63
ATOM	5393	CA	ALA	788	-17.019	6.436	-10.835	1.00	23.32
ATOM	5394	CB	ALA	788	-15.794	5.833	-11.564	1.00	21.55
ATOM	5395	C	ALA	788	-17.107	7.817	-11.510	1.00	23.99
ATOM	5396	O	ALA	788	-16.890	8.455	-11.020	1.00	23.15
ATOM	5397	N	LYS	789	-18.117	7.408	-12.566	1.00	25.42
ATOM	5398	CA	LYS	789	-18.495	9.750	-13.253	1.00	25.62
ATOM	5399	CB	LYS	789	-19.273	8.557	-14.587	1.00	29.53
ATOM	5400	CG	LYS	789	-18.679	7.683	-15.390	1.00	34.03
ATOM	5401	CD	LYS	789	-19.470	7.637	-16.721	1.00	37.45
ATOM	5402	CE	LYS	789	-18.909	6.342	-17.513	1.00	37.98
ATOM	5403	NE	LYS	789	-19.397	6.370	-18.911	1.00	38.55
ATOM	5404	C	LYS	789	-19.585	9.853	-13.479	1.00	24.56
ATOM	5405	O	LYS	789	-19.114	11.074	-12.140	1.00	23.55
ATOM	5406	N	ARG	790	-20.360	9.254	-11.737	1.00	23.75
ATOM	5407	CA	ARG	790	-21.275	9.959	-10.821	1.00	18.75
ATOM	5408	CB	ARG	790	-22.310	9.611	-10.329	1.00	16.20
ATOM	5409	CG	ARG	790	-23.470	8.564	-11.192	1.00	11.43
ATOM	5410	CD	ARG	790	-24.737	8.502	-10.483	1.00	14.23
ATOM	5411	DE	ARG	790	-24.786	7.563	-9.382	1.00	11.02
ATOM	5412	CE	ARG	790	-25.573	7.694	-8.297	1.00	17.39
ATOM	5413	NH1	ARG	790	-26.310	6.725	-8.205	1.00	15.31
ATOM	5414	NH2	ARG	790	-25.515	6.793	-7.323	1.00	15.56
ATOM	5415	C	ARG	790	-20.510	10.612	-9.680	1.00	21.42
ATOM	5416	O	ARG	790	-22.732	11.765	-9.429	1.00	21.36
ATOM	5417	N	THR	791	-18.584	6.804	-7.808	1.00	21.17
ATOM	5418	CA	THR	791	-18.611	10.374	-7.075	1.00	18.67

ATOM	5419	CR	ILE	791	-17.999	9.232	-7.310	1.00	18.12
ATOM	5420	CG1	ILE	791	-16.996	9.862	-6.317	1.00	16.97
ATOM	5421	CG1	ILE	791	-18.971	8.276	-6.599	1.00	20.08
ATOM	5422	CD1	ILE	791	-18.299	7.133	-5.849	1.00	23.20
ATOM	5423	C	ILE	791	-17.987	11.504	-8.402	1.00	15.88
ATOM	5424	O	ILE	791	-17.806	12.533	-7.732	1.00	15.92
ATOM	5425	N	THR	792	-17.192	11.215	-9.519	1.00	17.34
ATOM	5426	CA	THR	792	-16.071	12.576	-10.014	1.00	19.29
ATOM	5427	CB	THR	792	-15.511	11.819	-11.242	1.00	19.17
ATOM	5428	CG1	THR	792	-14.775	10.636	-10.890	1.00	17.58
ATOM	5429	CG2	THR	792	-14.539	12.879	-11.737	1.00	18.60
ATOM	5430	C	THR	792	-17.004	12.612	-10.360	1.00	20.40
ATOM	5431	O	THR	792	-16.476	14.713	-10.145	1.00	20.38
ATOM	5432	N	GLU	793	-18.216	13.509	-10.891	1.00	20.13
ATOM	5433	CA	GLU	793	-18.971	14.566	-11.236	1.00	21.69
ATOM	5434	CB	GLU	793	-20.014	14.382	-12.307	1.00	24.27
ATOM	5435	CG	GLU	793	-19.412	13.848	-11.589	1.00	25.80
ATOM	5436	CD	GLU	793	-20.425	13.745	-14.705	1.00	31.59
ATOM	5437	OE1	GLU	793	-21.51	12.160	-14.457	1.00	33.12
ATOM	5438	OE2	GLU	793	-20.135	14.145	-15.808	1.00	34.84
ATOM	5439	C	GLU	793	-19.654	15.177	-16.027	1.00	21.66
ATOM	5440	O	GLU	793	-18.869	16.546	-16.695	1.00	21.52
ATOM	5441	N	ALA	794	-19.990	14.579	-8.025	1.00	20.64
ATOM	5442	CA	ALA	794	-20.648	15.074	-8.831	1.00	19.93
ATOM	5443	CB	ALA	794	-21.394	15.978	-9.102	1.00	21.36
ATOM	5444	C	ALA	794	-19.675	15.779	-8.868	1.00	20.63
ATOM	5445	O	ALA	794	-20.088	16.977	-8.064	1.00	20.39
ATOM	5446	N	LEU	795	-18.399	15.776	-8.847	1.00	19.64
ATOM	5447	CA	LEU	795	-17.424	15.990	-8.034	1.00	17.32
ATOM	5448	CB	LEU	795	-18.488	14.970	-8.487	1.00	20.18
ATOM	5449	CG	LEU	795	-17.098	15.779	-8.674	1.00	20.70
ATOM	5450	CD1	LEU	795	-18.962	15.779	-8.142	1.00	21.53
ATOM	5451	CD2	LEU	795	-17.934	14.775	-8.527	1.00	26.77
ATOM	5452	C	LEU	795	-16.586	17.078	-8.657	1.00	19.79
ATOM	5453	C	LEU	795	-18.268	17.068	-7.846	1.00	16.74
ATOM	5454	N	ALA	796	-16.727	16.068	-5.840	1.00	15.88
ATOM	5455	CA	ALA	796	-15.404	16.178	-6.710	1.00	15.70
ATOM	5456	CB	ALA	796	-15.664	20.74	-5.494	1.00	15.60
ATOM	5457	C	ALA	796	-13.936	16.789	-6.193	1.00	16.71
ATOM	5458	O	ALA	796	-13.108	19.178	-7.008	1.00	13.79
ATOM	5459	N	ILE	797	-13.617	17.798	-5.175	1.00	14.70
ATOM	5460	CA	ILE	797	-12.243	17.548	-4.972	1.00	13.86
ATOM	5461	CB	ILE	797	-11.629	18.916	-3.560	1.00	14.70
ATOM	5462	CG2	ILE	797	-11.315	17.977	-3.488	1.00	13.72
ATOM	5463	CG1	ILE	797	-11.932	18.694	-3.365	1.00	15.77
ATOM	5464	CD1	ILE	797	-13.592	14.978	-2.090	1.00	16.34
ATOM	5465	C	ILE	797	-11.860	18.578	-2.034	1.00	11.79
ATOM	5466	O	ILE	797	-10.720	18.34	-2.595	1.00	13.87
ATOM	5467	N	PFO	798	-10.565	16.419	-6.340	1.00	13.76
ATOM	5468	CA	PFO	798	-9.444	17.279	-5.974	1.00	15.77
ATOM	5469	CB	PFO	798	-10.181	15.346	-7.359	1.00	17.35
ATOM	5470	CG	PFO	798	-8.720	15.776	-7.560	1.00	15.01
ATOM	5471	CD	PFO	798	-7.256	16.542	-6.455	1.00	17.78
ATOM	5472	C	PFO	798	-11.377	13.331	-6.920	1.00	13.75
ATOM	5473	O	PFO	798	-11.202	18.665	-5.745	1.00	13.35
ATOM	5474	N	VAL	799	-11.764	18.164	-7.875	1.00	15.79
ATOM	5475	CA	VAL	799	-10.982	18.770	-7.673	1.00	15.13
ATOM	5476	CB	VAL	799	-11.432	17.319	-8.017	1.00	16.72
ATOM	5477	CG1	VAL	799	-10.605	18.345	-7.864	1.00	13.72
ATOM	5478	CG2	VAL	799	-10.422	18.040	-7.115	1.00	13.76
ATOM	5479	C	VAL	799	-9.994	19.041	-6.433	1.00	14.77
ATOM	5480	O	VAL	799	-8.949	18.039	-6.473	1.00	13.79
ATOM	5481	N	ILE	800	-9.196	18.162	-7.751	1.00	13.76
ATOM	5482	CA	ILE	800	-8.170	18.135	-6.450	1.00	13.75
ATOM	5483	CB	ILE	800	-8.861	18.375	-7.525	1.00	13.69
ATOM	5484	CG1	ILE	800	-8.835	18.414	-8.178	1.00	13.61
ATOM	5485	CG2	ILE	800	-8.315	18.810	-7.524	1.00	13.70
ATOM	5486	CD1	ILE	800	-9.074	11.021	-8.676	1.00	17.30
ATOM	5487	C	ILE	800	-8.691	18.911	-8.479	1.00	13.61
ATOM	5488	O	ILE	800	-8.113	18.734	-7.314	1.00	13.66
ATOM	5489	N	GLY	801	-8.673	18.749	-8.629	1.00	13.09
ATOM	5490	CA	GLY	801	-8.178	18.025	-8.798	1.00	13.12
ATOM	5491	C	GLY	801	-7.151	4.535	-16.061	1.00	13.23
ATOM	5492	O	GLY	801	-7.055	9.200	-10.949	1.00	12.71
ATOM	5493	N	ILE	802	-8.500	17.713	-8.753	1.00	14.81
ATOM	5494	CA	ILE	802	-7.711	17.533	-8.054	1.00	16.68
ATOM	5495	CB	ILE	802	-6.799	21.164	-8.774	1.00	15.76

ATOM	5496	CG2	ILE	#02	-7.575	2.202	-7.439	1.85	18.40
ATOM	5497	CG1	ILE	#02	-6.172	0.782	-8.967	1.85	20.33
ATOM	5498	CD1	ILE	#02	-5.323	0.706	-10.185	1.86	20.86
ATOM	5499	C	ILE	#02	-8.773	1.468	-10.222	1.85	19.80
ATOM	5500	O	ILE	#02	-9.548	1.112	-9.343	1.86	16.12
ATOM	5501	N	GLY	#03	-8.831	1.008	-11.466	1.85	18.14
ATOM	5502	CA	GLY	#03	-9.826	0.024	-11.334	1.86	18.81
ATOM	5503	C	GLY	#03	-11.211	0.649	-11.313	1.86	19.82
ATOM	5504	O	GLY	#03	-12.206	-0.041	-11.609	1.86	20.70
ATOM	5505	N	ALA	#04	-11.278	1.357	-12.049	1.86	17.32
ATOM	5506	CA	ALA	#04	-12.544	2.636	-12.947	1.85	18.13
ATOM	5507	CB	ALA	#04	-12.545	3.719	-10.923	1.86	16.95
ATOM	5508	C	ALA	#04	-12.834	3.319	-12.282	1.86	17.12
ATOM	5509	O	ALA	#04	-13.727	4.205	-13.476	1.86	16.19
ATOM	5510	N	GLY	#05	-12.079	2.999	-14.413	1.86	17.34
ATOM	5511	CA	GLY	#05	-12.289	3.395	-15.518	1.86	19.47
ATOM	5512	C	GLY	#05	-11.524	4.893	-15.665	1.85	19.15
ATOM	5513	O	GLY	#05	-10.832	5.306	-14.964	1.85	19.03
ATOM	5514	N	ASN	#06	-11.646	5.509	-17.357	1.85	18.88
ATOM	5515	CA	ASN	#06	-10.539	6.770	-17.354	1.86	18.11
ATOM	5516	CB	ASN	#06	-10.410	6.784	-18.783	1.85	16.44
ATOM	5517	CG	ASN	#06	-11.511	6.903	-19.810	1.85	16.11
ATOM	5518	OD1	ASN	#06	-11.125	7.237	-19.971	1.85	16.13
ATOM	5519	ND1	ASN	#06	-12.767	6.770	-19.434	1.85	13.13
ATOM	5520	C	ASN	#06	-11.774	8.066	-17.662	1.86	18.13
ATOM	5521	O	ASN	#06	-11.411	9.031	-17.497	1.85	18.13
ATOM	5522	N	VAL	#07	-12.872	7.888	-16.132	1.85	13.13
ATOM	5523	CA	VAL	#07	-13.756	8.965	-16.133	1.85	19.13
ATOM	5524	CB	VAL	#07	-15.205	8.439	-15.863	1.85	21.13
ATOM	5525	CG1	VAL	#07	-16.140	9.635	-15.847	1.85	21.13
ATOM	5526	CG2	VAL	#07	-15.578	7.547	-16.869	1.85	24.13
ATOM	5527	C	VAL	#07	-13.154	9.738	-14.783	1.85	18.13
ATOM	5528	O	VAL	#07	-13.941	10.770	-14.478	1.85	18.13
ATOM	5529	N	THR	#08	-12.161	9.327	-14.357	1.85	18.13
ATOM	5530	CA	THR	#08	-11.899	9.915	-12.858	1.85	13.13
ATOM	5531	CB	THR	#08	-11.303	8.400	-11.865	1.85	18.13
ATOM	5532	CG1	THR	#08	-10.153	8.212	-12.567	1.85	13.13
ATOM	5533	CG2	THR	#08	-12.215	7.743	-12.349	1.86	13.13
ATOM	5534	C	THR	#08	-10.944	11.048	-13.298	1.85	18.13
ATOM	5535	O	THR	#08	-10.476	11.103	-14.390	1.86	18.13
ATOM	5536	N	ASP	#09	-10.675	11.318	-12.112	1.85	13.13
ATOM	5537	CA	ASP	#09	-9.790	13.336	-12.555	1.85	18.13
ATOM	5538	CB	ASP	#09	-9.912	14.115	-11.493	1.85	13.13
ATOM	5539	CG	ASP	#09	-11.392	14.541	-11.111	1.86	18.13
ATOM	5540	OD1	ASP	#09	-11.899	15.117	-12.141	1.86	13.13
ATOM	5541	OD2	ASP	#09	-11.857	14.518	-10.326	1.85	13.13
ATOM	5542	C	ASP	#09	-8.542	12.833	-12.631	1.86	13.13
ATOM	5543	O	ASP	#09	-7.535	13.200	-13.738	1.85	14.13
ATOM	5544	N	GLY	#10	-8.001	11.833	-12.631	1.85	18.13
ATOM	5545	CA	GLY	#10	-6.903	11.931	-12.032	1.85	18.13
ATOM	5546	C	GLY	#10	-6.631	9.581	-12.037	1.86	14.13
ATOM	5547	O	GLY	#10	-7.656	8.301	-11.914	1.85	14.13
ATOM	5548	N	GLN	#11	-5.434	8.904	-13.115	1.85	14.13
ATOM	5549	CA	GLN	#11	-5.242	7.538	-12.033	1.85	13.13
ATOM	5550	CB	GLN	#11	-4.429	7.000	-13.536	1.86	16.13
ATOM	5551	CG	GLN	#11	-6.026	7.208	-14.525	1.85	16.13
ATOM	5552	CD	GLN	#11	-7.354	6.404	-14.248	1.85	14.13
ATOM	5553	OE1	GLN	#11	-7.145	5.207	-13.812	1.85	15.13
ATOM	5554	NE2	GLN	#11	-6.428	6.903	-14.513	1.86	13.13
ATOM	5555	C	GLN	#11	-4.045	7.113	-11.173	1.85	16.13
ATOM	5556	O	GLN	#11	-3.129	7.933	-10.940	1.85	13.13
ATOM	5557	H	ILE	#12	-4.131	5.203	-10.843	1.85	18.13
ATOM	5558	CA	ILE	#12	-3.950	5.403	-9.729	1.85	21.13
ATOM	5559	CB	ILE	#12	-3.344	5.603	-8.289	1.85	21.13
ATOM	5560	CG1	ILE	#12	-4.433	4.733	-9.910	1.85	21.13
ATOM	5561	CG2	ILE	#12	-5.113	5.403	-9.467	1.85	26.13
ATOM	5562	CD1	ILE	#12	-2.166	6.111	-8.033	1.85	21.13
ATOM	5563	C	ILE	#12	-4.380	3.763	-10.066	1.85	27.13
ATOM	5564	O	ILE	#12	-3.731	3.102	-10.599	1.85	22.13
ATOM	5565	N	LEU	#13	-1.677	5.433	-9.803	1.85	21.13
ATOM	5566	CA	LEU	#13	-1.369	2.031	-10.077	1.85	27.13
ATOM	5567	CB	LEU	#13	-1.231	1.814	-11.571	1.85	24.13
ATOM	5568	CG	LEU	#13	-2.228	0.813	-12.233	1.85	13.13
ATOM	5569	CD1	LEU	#13	-1.759	0.552	-13.636	1.86	36.02
ATOM	5570	CD2	LEU	#13	-2.396	-0.463	-11.433	1.86	34.13
ATOM	5571	C	LEU	#13	0.675	1.754	-9.133	1.86	27.13
ATOM	5572	O	LEU	#13	0.783	2.153	-7.133	1.86	24.13

ATOM	5573	N	VAL	814	0.046	-0.422	-9.038	1.00	27.73
ATOM	5574	CA	VAL	814	1.228	-0.099	-8.368	1.00	24.75
ATOM	5575	CB	VAL	814	0.997	-1.504	-7.375	1.00	26.98
ATOM	5576	CG1	VAL	814	2.285	-2.045	-7.170	1.00	27.58
ATOM	5577	CG2	VAL	814	-0.098	-1.420	-6.705	1.00	29.29
ATOM	5578	C	VAL	814	2.311	-0.208	-9.456	1.00	21.90
ATOM	5579	O	VAL	814	2.128	-0.851	-10.467	1.00	19.33
ATOM	5580	N	MET	-15	2.441	0.438	-9.202	1.00	21.84
ATOM	5581	CA	MET	-15	4.546	0.432	-10.142	1.00	18.61
ATOM	5582	CB	MET	-15	5.710	1.244	-9.564	1.00	18.22
ATOM	5583	CG	MET	-15	6.182	0.786	-8.190	1.00	18.35
ATOM	5584	SD	MET	-15	7.964	0.947	-8.347	1.00	16.36
ATOM	5585	CE	MET	-15	8.452	-0.581	-8.957	1.00	11.50
ATOM	5586	C	MET	-15	5.020	-0.973	-10.521	1.00	17.74
ATOM	5587	O	MET	-15	5.465	-1.205	-11.679	1.00	19.67
ATOM	5588	N	HIS	-16	4.908	-1.918	-9.567	1.00	17.17
ATOM	5589	CA	HIS	-16	5.358	-3.276	-9.870	1.00	18.60
ATOM	5590	CB	HIS	-16	5.719	-4.091	-8.570	1.00	18.98
ATOM	5591	CG	HIS	-16	6.734	-3.679	-7.567	1.00	18.58
ATOM	5592	CD	HIS	-16	6.717	-3.670	-6.675	1.00	11.97
ATOM	5593	NE1	HIS	-16	7.604	-4.177	-7.507	1.00	18.90
ATOM	5594	HE1	HIS	-16	8.727	-3.500	-6.601	1.00	11.55
ATOM	5595	NE2	HIS	-16	7.571	-2.551	-6.307	1.00	21.47
ATOM	5596	C	HIS	-16	4.578	-3.955	-10.994	1.00	20.90
ATOM	5597	O	HIS	-16	5.496	-4.844	-11.501	1.00	20.05
ATOM	5598	N	ASP	-17	2.740	-3.524	-11.317	1.00	23.00
ATOM	5599	CA	ASP	-17	2.824	-4.085	-11.394	1.00	25.87
ATOM	5600	CB	ASP	-17	1.341	-4.017	-11.909	1.00	23.00
ATOM	5601	CG	ASP	-17	2.789	-4.870	-10.713	1.00	21.54
ATOM	5602	CD1	ASP	-17	0.878	-6.062	-10.747	1.00	24.60
ATOM	5603	DD	ASP	-17	0.224	-4.214	-9.716	1.00	24.24
ATOM	5604	C	ASP	-17	1.786	-3.341	-11.507	1.00	26.51
ATOM	5605	O	ASP	-17	2.742	-3.925	-14.587	1.00	27.19
ATOM	5606	N	ALA	-18	3.064	-2.045	-17.449	1.00	17.44
ATOM	5607	CA	ALA	-18	1.520	-1.195	-14.651	1.00	17.51
ATOM	5608	CB	ALA	-18	1.487	0.262	-14.114	1.00	18.77
ATOM	5609	C	ALA	-18	4.575	-1.609	-15.438	1.00	18.41
ATOM	5610	O	ALA	-18	4.767	-1.348	-16.840	1.00	17.43
ATOM	5611	N	PHE	-19	5.536	-2.233	-14.761	1.00	18.40
ATOM	5612	CA	PHE	-19	6.764	-2.670	-15.434	1.00	27.70
ATOM	5613	CB	PHE	-19	7.994	-2.253	-14.708	1.00	26.19
ATOM	5614	CG	PHE	-19	7.889	-0.677	-14.819	1.00	24.48
ATOM	5615	CH	PHE	-19	7.413	0.237	-15.379	1.00	18.19
ATOM	5616	CD2	PHE	-19	8.248	-0.219	-13.996	1.00	18.81
ATOM	5617	CE1	PHE	-19	7.284	1.588	-14.875	1.00	18.43
ATOM	5618	CE2	PHE	-19	8.121	1.130	-12.753	1.00	28.98
ATOM	5619	CZ	PHE	-19	7.643	2.037	-13.707	1.00	33.50
ATOM	5620	C	PHE	-19	6.864	-4.197	-15.551	1.00	25.17
ATOM	5621	O	PHE	-19	7.953	-4.743	-15.346	1.00	24.68
ATOM	5622	N	GLY	-20	5.753	-4.872	-15.323	1.00	24.44
ATOM	5623	CA	GLY	-20	5.733	-6.310	-15.413	1.00	21.57
ATOM	5624	C	GLY	-20	6.656	-7.010	-14.423	1.00	25.59
ATOM	5625	O	GLY	-20	7.124	-8.119	-14.633	1.00	25.84
ATOM	5626	N	ILE	-21	6.913	-6.369	-13.237	1.00	23.07
ATOM	5627	CA	ILE	-21	7.779	-6.942	-12.277	1.00	23.14
ATOM	5628	CB	ILE	-21	8.241	-5.847	-11.247	1.00	23.40
ATOM	5629	CG1	ILE	-21	9.023	-6.565	-10.110	1.00	14.34
ATOM	5630	CG2	ILE	-21	9.099	-4.847	-11.954	1.00	13.75
ATOM	5631	CD1	ILE	-21	9.473	-3.631	-11.125	1.00	17.39
ATOM	5632	C	ILE	-21	7.075	-8.947	-11.555	1.00	21.87
ATOM	5633	O	ILE	-21	7.542	-8.143	-11.311	1.00	21.60
ATOM	5634	N	THR	-22	5.957	-7.748	-11.233	1.00	24.23
ATOM	5635	CA	THR	-22	4.916	-8.741	-10.582	1.00	23.76
ATOM	5636	CB	THR	-22	3.548	-8.117	-10.125	1.00	23.81
ATOM	5637	CG1	THR	-22	3.632	-7.441	-11.377	1.00	23.64
ATOM	5638	CG2	THR	-22	3.697	-7.134	-8.036	1.00	23.52
ATOM	5639	C	THR	-22	4.689	-10.014	-11.477	1.00	18.12
ATOM	5640	O	THR	-22	4.675	-9.948	-12.634	1.00	28.97
ATOM	5641	N	GLY	-23	4.514	-11.112	-10.713	1.00	18.39
ATOM	5642	CA	GLY	-23	4.285	-13.437	-11.374	1.00	18.65
ATOM	5643	C	GLY	-23	4.137	-12.414	-12.863	1.00	13.12
ATOM	5644	O	GLY	-23	5.114	-12.378	-13.541	1.00	15.17
ATOM	5645	N	GLY	-24	2.903	-12.560	-13.333	1.00	15.92
ATOM	5646	CA	GLY	-24	3.971	-12.564	-14.769	1.00	17.84
ATOM	5647	C	GLY	-24	1.199	-12.505	-15.103	1.00	49.56
ATOM	5648	O	GLY	-24	2.817	-12.437	-15.271	1.00	50.37
ATOM	5649	N	HIS	-25	1.768	-12.481	-14.068	1.00	50.83

ATCM	5650	CA	HIS	825	-1.077	-12.408	-14.748	1.00	52.44
ATCM	5651	CB	HIS	825	-1.037	-13.633	-13.610	1.00	54.90
ATCM	5652	CG	HIS	825	-1.153	-14.335	-14.063	1.00	57.85
ATCM	5653	CD2	HIS	825	-0.491	-15.460	-13.381	1.00	58.90
ATCM	5654	ND1	HIS	825	-1.195	-15.355	-15.376	1.00	59.02
ATCM	5655	CE1	HIS	825	-0.322	-16.413	-15.483	1.00	59.10
ATCM	5656	NE2	HIS	825	-0.146	-16.874	-14.087	1.00	58.90
ATCM	5657	C	HIS	825	-1.025	-11.131	-13.613	1.00	51.18
ATCM	5658	O	HIS	825	-2.480	-11.154	-12.738	1.00	51.01
ATCM	5659	N	ILE	825	-1.120	-9.987	-14.055	1.00	50.05
ATCM	5660	CA	ILE	825	-1.566	-8.689	-13.516	1.00	48.19
ATCM	5661	CB	ILE	825	-0.383	-7.510	-14.030	1.00	48.89
ATCM	5662	CG2	ILE	825	0.001	-7.617	-14.078	1.00	50.27
ATCM	5663	CG1	ILE	825	-1.150	-7.484	-15.705	1.00	44.07
ATCM	5664	CD1	ILE	825	-0.762	-6.173	-16.460	1.00	47.09
ATCM	5665	C	ILE	825	-3.177	-8.531	-13.640	1.00	46.15
ATCM	5666	O	ILE	825	-1.007	-9.113	-14.520	1.00	45.11
ATCM	5667	N	PRO	825	-3.678	-7.714	-12.758	1.00	44.17
ATCM	5668	CA	PRO	825	-1.007	-6.921	-11.700	1.00	43.05
ATCM	5669	CB	PRO	825	-1.114	-7.485	-12.780	1.00	44.13
ATCM	5670	CG	PRO	825	0.144	-6.597	-11.560	1.00	44.15
ATCM	5671	CD	PRO	825	-4.017	-5.941	-11.457	1.00	41.19
ATCM	5672	C	PRO	825	-5.011	-6.849	-14.073	1.00	41.01
ATCM	5673	O	PRO	825	-4.078	-6.137	-14.757	1.00	41.15
ATCM	5674	N	LYS	825	-6.884	-7.116	-14.407	1.00	31.01
ATCM	5675	CA	LYS	825	-7.000	-6.180	-15.610	1.00	31.19
ATCM	5676	CB	LYS	825	-8.176	-6.986	-15.881	1.00	41.08
ATCM	5677	CG	LYS	825	-9.116	-6.883	-16.124	1.00	41.06
ATCM	5678	CD	LYS	825	-8.889	-8.180	-15.483	1.00	41.07
ATCM	5679	CE	LYS	825	-9.837	-11.013	-16.133	1.00	41.07
ATCM	5680	NZ	LYS	825	-8.744	-11.062	-15.190	1.00	44.01
ATCM	5681	C	LYS	825	-7.491	-5.169	-18.787	1.00	31.78
ATCM	5682	O	LYS	825	-7.756	-4.183	-16.847	1.00	31.06
ATCM	5683	N	PHE	825	-7.885	-4.684	-14.003	1.00	21.05
ATCM	5684	CA	PHE	825	-7.836	-7.183	-14.625	1.00	26.01
ATCM	5685	CB	PHE	825	-7.867	-6.112	-11.860	1.00	21.04
ATCM	5686	CG	PHE	825	-7.831	-7.184	-12.117	1.00	26.06
ATCM	5687	CD1	PHE	825	-6.181	-8.023	-11.894	1.00	21.04
ATCM	5688	CE2	PHE	825	-7.813	-7.782	-11.878	1.00	21.06
ATCM	5689	CE1	PHE	825	-6.347	-2.789	-19.814	1.00	21.53
ATCM	5690	CE2	PHE	825	-7.137	-4.182	-19.113	1.00	21.40
ATCM	5691	CZ	PHE	825	-6.171	-1.897	-9.123	1.00	26.05
ATCM	5692	C	PHE	825	-5.123	-2.382	-14.783	1.00	26.01
ATCM	5693	O	PHE	825	-5.766	-1.136	-15.910	1.00	26.03
ATCM	5694	N	ALA	825	-4.111	-3.154	-14.681	1.00	24.63
ATCM	5695	CA	ALA	825	-3.123	-2.736	-14.813	1.00	23.28
ATCM	5696	CB	ALA	825	-2.643	-1.453	-13.834	1.00	21.73
ATCM	5697	C	ALA	825	-2.137	-2.314	-16.123	1.00	22.75
ATCM	5698	O	ALA	825	-3.412	-1.878	-17.063	1.00	21.73
ATCM	5699	N	LYS	825	-1.842	-2.316	-16.495	1.00	21.73
ATCM	5700	CA	LYS	825	-1.103	-2.411	-17.401	1.00	20.77
ATCM	5701	CB	LYS	825	-1.694	-1.325	-18.731	1.00	22.17
ATCM	5702	CG	LYS	825	-0.465	-1.235	-20.974	1.00	22.17
ATCM	5703	CD	LYS	825	-1.486	-0.135	-20.459	1.00	24.84
ATCM	5704	CE	LYS	825	-0.669	0.000	-22.227	1.00	27.33
ATCM	5705	NZ	LYS	825	-1.130	1.114	-23.117	1.00	27.97
ATCM	5706	C	LYS	825	0.301	-3.245	-17.665	1.00	20.84
ATCM	5707	O	LYS	825	0.432	-1.515	-18.924	1.00	20.33
ATCM	5708	N	ASN	825	0.485	-3.286	-19.387	1.00	20.11
ATCM	5709	CA	ASN	825	2.161	-4.275	-18.393	1.00	20.06
ATCM	5710	CB	ASN	825	2.115	-4.696	-18.715	1.00	19.73
ATCM	5711	CG	ASN	825	4.470	-4.820	-19.755	1.00	19.21
ATCM	5712	CD1	ASN	825	3.145	-3.832	-19.897	1.00	21.51
ATCM	5713	CD2	ASN	825	4.821	-6.045	-18.653	1.00	18.67
ATCM	5714	C	ASN	825	2.023	-7.323	-19.480	1.00	20.14
ATCM	5715	O	ASN	825	1.033	-1.033	-20.653	1.00	19.09
ATCM	5716	N	THR	825	1.083	-1.102	-18.057	1.00	19.67
ATCM	5717	CA	PHE	825	1.084	-0.102	-20.034	1.00	29.01
ATCM	5718	CB	PHE	825	1.087	1.001	-19.418	1.00	21.37
ATCM	5719	CG	PHE	825	1.086	1.013	-19.325	1.00	21.37
ATCM	5720	CD1	PHE	825	1.081	1.005	-18.675	1.00	21.53
ATCM	5721	CD2	PHE	825	1.079	2.157	-20.229	1.00	29.94
ATCM	5722	CE1	PHE	825	0.088	1.942	-17.918	1.00	23.27
ATCM	5723	CE2	PHE	825	0.067	2.997	-29.081	1.00	22.83
ATCM	5724	CZ	PHE	825	-0.545	2.689	-18.826	1.00	21.37
ATCM	5725	C	THR	825	0.189	1.013	-21.113	1.00	11.34
ATCM	5726	O	THR	825	0.187	1.013	-21.113	1.00	11.34

ATOM	5727	N	LEU	834	5.919	-1.201	-19.793	1.00	19.73
ATOM	5728	CA	LEU	834	7.289	-1.541	-20.176	1.00	20.43
ATOM	5729	CB	LEU	834	8.037	-2.176	-16.990	1.00	19.89
ATOM	5730	CG	LEU	834	9.493	-2.506	-19.274	1.00	18.42
ATOM	5731	CD1	LEU	834	10.317	-1.390	-19.481	1.00	21.54
ATOM	5732	CD2	LEU	834	10.064	-3.383	-18.115	1.00	20.29
ATOM	5733	C	LEU	834	7.301	-2.513	-21.343	1.00	22.45
ATOM	5734	O	LEU	834	8.221	-2.506	-22.163	1.00	22.86
ATOM	5735	N	ALA	835	6.284	-3.304	-21.470	1.00	25.29
ATOM	5736	CA	ALA	835	6.190	-4.332	-22.504	1.00	29.51
ATOM	5737	CB	ALA	835	4.968	-5.231	-22.310	1.00	30.38
ATOM	5738	C	ALA	835	6.684	-3.582	-23.824	1.00	32.18
ATOM	5739	O	ALA	835	6.771	-3.911	-24.780	1.00	32.05
ATOM	5740	N	GLU	836	5.260	-2.581	-23.843	1.00	34.79
ATOM	5741	CA	GLU	836	4.977	-1.740	-25.010	1.00	38.46
ATOM	5742	CB	GLU	836	4.010	-0.595	-24.004	1.00	41.47
ATOM	5743	CG	GLU	836	2.611	-1.015	-24.709	1.00	45.34
ATOM	5744	CD	GLU	836	1.724	-1.330	-23.410	1.00	47.50
ATOM	5745	OE1	GLU	836	2.091	-2.308	-26.100	1.00	48.80
ATOM	5746	OE2	GLU	836	0.670	-0.745	-23.700	1.00	48.60
ATOM	5747	C	GLU	836	6.104	-1.101	-25.450	1.00	58.72
ATOM	5748	O	GLU	836	6.690	-1.219	-26.600	1.00	61.00
ATOM	5749	N	PRO	837	6.907	-0.504	-24.700	1.00	39.30
ATOM	5750	CA	PRO	837	8.284	0.002	-24.700	1.00	36.60
ATOM	5751	CB	PRO	837	8.505	1.301	-24.000	1.00	16.80
ATOM	5752	CG1	PRO	837	9.823	1.801	-24.700	1.00	18.80
ATOM	5753	CG2	PRO	837	8.151	1.006	-22.400	1.00	15.04
ATOM	5754	C	PRO	837	9.350	-0.500	-24.700	1.00	36.80
ATOM	5755	O	PRO	837	9.100	-2.103	-24.000	1.00	38.60
ATOM	5756	N	GLY	838	10.546	-0.400	-24.000	1.00	23.88
ATOM	5757	CA	GLY	838	12.000	-1.200	-23.000	1.00	21.00
ATOM	5758	C	GLY	838	12.514	-0.604	-23.000	1.00	18.88
ATOM	5759	O	GLY	838	13.484	-1.200	-23.000	1.00	28.00
ATOM	5760	N	ASP	839	12.176	0.911	-22.176	1.00	18.03
ATOM	5761	CA	ASP	839	12.882	1.476	-21.176	1.00	17.44
ATOM	5762	CB	ASP	839	11.514	2.410	-21.000	1.00	12.86
ATOM	5763	CG	ASP	839	14.173	3.501	-21.000	1.00	15.16
ATOM	5764	OD1	ASP	839	17.473	4.500	-21.400	1.00	16.08
ATOM	5765	OD2	ASP	839	15.347	3.100	-21.400	1.00	10.04
ATOM	5766	C	ASP	839	11.886	1.714	-20.884	1.00	14.78
ATOM	5767	O	ASP	839	10.806	2.203	-21.000	1.00	24.81
ATOM	5768	N	ILE	840	14.174	1.500	-19.500	1.00	22.68
ATOM	5769	CA	ILE	840	13.413	1.932	-17.601	1.00	19.45
ATOM	5770	CB	ILE	840	12.087	1.605	-16.005	1.00	17.83
ATOM	5771	CG2	ILE	840	11.244	2.102	-15.104	1.00	17.93
ATOM	5772	CG1	ILE	840	12.119	0.111	-14.103	1.00	18.15
ATOM	5773	CD1	ILE	840	12.360	-0.302	-14.809	1.00	21.02
ATOM	5774	C	ILE	840	11.034	3.402	-17.708	1.00	18.92
ATOM	5775	O	ILE	840	9.109	3.703	-17.473	1.00	18.54
ATOM	5776	N	ARG	841	11.893	1.500	-17.000	1.00	19.90
ATOM	5777	CA	ARG	841	11.696	5.702	-14.007	1.00	19.12
ATOM	5778	CB	ARG	841	12.901	6.500	-18.004	1.00	18.56
ATOM	5779	CG	ARG	841	13.814	6.503	-16.016	1.00	20.62
ATOM	5780	CD	ARG	841	15.181	7.167	-17.007	1.00	21.49
ATOM	5781	NE	ARG	841	15.867	7.203	-15.774	1.00	21.31
ATOM	5782	CZ	ARG	841	15.317	6.246	-15.002	1.00	22.30
ATOM	5783	NH1	ARG	841	15.369	5.000	-15.000	1.00	21.26
ATOM	5784	NH2	ARG	841	16.914	6.101	-13.002	1.00	22.06
ATOM	5785	H	ARG	841	10.743	5.937	-19.202	1.00	18.94
ATOM	5786	H	ARG	841	9.842	6.000	-18.000	1.00	17.46
ATOM	5787	N	ASA	842	10.318	5.162	-20.001	1.00	19.39
ATOM	5788	CA	ASA	842	10.008	5.436	-19.409	1.00	20.69
ATOM	5789	CB	ASA	842	19.506	4.000	-19.000	1.00	20.88
ATOM	5790	C	ASA	842	6.608	4.001	-19.001	1.00	20.50
ATOM	5791	O	ASA	842	7.604	5.000	-19.000	1.00	22.40
ATOM	5792	N	ASA	843	8.591	3.000	-19.000	1.00	19.60
ATOM	5793	CA	ASA	843	7.300	3.000	-19.000	1.00	17.80
ATOM	5794	CB	ASA	843	7.506	2.046	-19.019	1.00	19.09
ATOM	5795	C	ASA	843	6.509	4.321	-18.910	1.00	19.70
ATOM	5796	O	ASA	843	5.300	4.411	-19.000	1.00	17.00
ATOM	5797	N	VAL	844	7.259	5.045	-18.059	1.00	19.70
ATOM	5798	CA	VAL	844	6.647	6.000	-17.000	1.00	17.40
ATOM	5799	CB	VAL	844	7.604	6.000	-16.000	1.00	15.00
ATOM	5800	CD1	VAL	844	7.074	7.788	-15.848	1.00	18.10
ATOM	5801	CD2	VAL	844	8.113	5.545	-15.169	1.00	19.00
ATOM	5802	C	VAL	844	6.000	7.100	-16.000	1.00	18.00
ATOM	5803	O	VAL	844	4.000	8.000	-17.000	1.00	19.00

ATOM	5804	N	ARG	845	6.817	7.618	-19.024	1.00	23.79
ATOM	5805	CA	ARG	845	6.835	8.695	-19.876	1.00	21.40
ATOM	5806	CB	ARG	845	7.894	9.118	-20.866	1.00	23.26
ATOM	5807	CG	ARG	845	8.631	9.750	-20.258	1.00	24.31
ATOM	5808	CD	ARG	845	9.602	10.433	-21.206	1.00	28.50
ATOM	5809	NE	ARG	845	10.136	9.479	-22.217	1.00	25.46
ATOM	5810	CZ	ARG	845	11.194	8.852	-22.009	1.00	26.44
ATOM	5811	NH1	ARG	845	11.976	9.131	-20.899	1.00	27.41
ATOM	5812	NH2	ARG	845	11.767	8.033	-22.909	1.00	24.69
ATOM	5813	C	ARG	845	5.091	8.281	-20.613	1.00	21.24
ATOM	5814	O	ARG	845	4.199	9.093	-20.723	1.00	19.90
ATOM	5815	N	GLN	846	5.029	7.944	-21.169	1.00	20.09
ATOM	5816	CA	GLN	846	3.832	6.543	-21.816	1.00	20.30
ATOM	5817	CB	GLN	846	4.149	5.167	-22.419	1.00	23.28
ATOM	5818	CG	GLN	846	2.762	4.529	-23.032	1.00	31.74
ATOM	5819	CD	GLN	846	3.780	3.296	-23.569	1.00	35.73
ATOM	5820	OE1	GLN	846	3.747	5.334	-24.004	1.00	38.70
ATOM	5821	NH2	GLN	846	2.773	1.111	-23.370	1.00	37.15
ATOM	5822	C	GLN	846	2.632	6.366	-20.889	1.00	19.10
ATOM	5823	O	GLN	846	1.717	6.399	-21.190	1.00	18.61
ATOM	5824	N	TYR	847	2.761	6.177	-19.609	1.00	18.58
ATOM	5825	CA	TYR	847	1.799	6.047	-18.606	1.00	16.17
ATOM	5826	CB	TYR	847	2.711	5.416	-17.795	1.00	17.16
ATOM	5827	CG	TYR	847	1.734	5.507	-16.189	1.00	24.88
ATOM	5828	CH1	TYR	847	0.787	5.169	-16.757	1.00	18.94
ATOM	5829	CH2	TYR	847	-0.710	5.237	-15.136	1.00	24.43
ATOM	5830	CD2	TYR	847	1.714	5.157	-14.995	1.00	24.10
ATOM	5831	CH2	TYR	847	0.780	5.237	-13.897	1.00	21.19
ATOM	5832	CH	TYR	847	-0.711	5.339	-13.333	1.00	24.15
ATOM	5833	OH	TYR	847	-1.730	5.266	-12.876	1.00	21.46
ATOM	5834	C	TYR	847	1.732	5.497	-18.411	1.00	21.79
ATOM	5835	O	TYR	847	0.745	5.816	-18.119	1.00	18.16
ATOM	5836	N	MET	848	2.117	5.340	-18.389	1.00	19.31
ATOM	5837	CA	MET	848	1.706	5.817	-18.089	1.00	19.23
ATOM	5838	CB	MET	848	2.846	1.739	-17.901	1.00	21.20
ATOM	5839	CG	MET	848	3.124	1.483	-16.609	1.00	21.47
ATOM	5840	SD	MET	848	5.474	11.638	-16.716	1.00	21.85
ATOM	5841	CH	MET	848	5.119	1.339	-16.636	1.00	23.02
ATOM	5842	C	MET	848	0.781	1.333	-19.203	1.00	19.33
ATOM	5843	O	MET	848	-0.716	1.332	-19.035	1.00	19.25
ATOM	5844	N	ALA	849	1.739	1.351	-20.106	1.00	20.48
ATOM	5845	CA	ALA	849	0.845	1.437	-21.601	1.00	21.76
ATOM	5846	CB	ALA	849	1.737	1.339	-22.604	1.00	21.70
ATOM	5847	C	ALA	849	-0.711	2.797	-21.302	1.00	21.08
ATOM	5848	O	ALA	849	-1.739	1.435	-22.109	1.00	22.23
ATOM	5849	N	GLU	850	-0.740	2.435	-21.701	1.00	18.51
ATOM	5850	CA	GLU	850	-1.736	2.733	-21.500	1.00	21.22
ATOM	5851	CB	GLU	850	-1.731	2.219	-21.977	1.00	23.03
ATOM	5852	CG	GLU	850	-1.731	2.780	-23.281	1.00	21.40
ATOM	5853	CD	GLU	850	-0.797	4.262	-23.375	1.00	22.09
ATOM	5854	OE1	GLU	850	-1.792	3.593	-22.793	1.00	23.56
ATOM	5855	OE2	GLU	850	-0.124	2.292	-24.096	1.00	27.29
ATOM	5856	C	GLU	850	-3.675	2.163	-20.942	1.00	26.17
ATOM	5857	O	GLU	850	-4.689	2.347	-21.211	1.00	20.44
ATOM	5858	N	VAL	851	-2.767	2.574	-19.705	1.00	20.20
ATOM	5859	CA	VAL	851	-3.732	2.707	-18.712	1.00	19.59
ATOM	5860	CB	VAL	851	-2.795	2.702	-17.582	1.00	19.93
ATOM	5861	CG1	VAL	851	-3.737	2.703	-16.187	1.00	15.86
ATOM	5862	CG2	VAL	851	-2.763	2.700	-16.810	1.00	17.16
ATOM	5863	C	VAL	851	-4.666	2.705	-19.104	1.00	18.69
ATOM	5864	O	VAL	851	-5.689	2.703	-19.167	1.00	17.31
ATOM	5865	N	GLY	852	-3.724	2.700	-19.006	1.00	20.35
ATOM	5866	CA	GLY	852	-3.718	2.703	-18.805	1.00	22.19
ATOM	5867	CB	GLY	852	-2.748	2.707	-20.003	1.00	24.34
ATOM	5868	CG	GLY	852	-3.675	2.706	-20.005	1.00	28.53
ATOM	5869	CH	GLY	852	-2.673	2.709	-20.009	1.00	36.66
ATOM	5870	CH1	GLY	852	-2.710	2.717	-20.007	1.00	35.44
ATOM	5871	CH2	GLY	852	-1.679	2.706	-19.480	1.00	31.23
ATOM	5872	C	GLY	852	-4.745	2.700	-21.186	1.00	22.60
ATOM	5873	O	GLY	852	-5.634	2.703	-21.176	1.00	21.59
ATOM	5874	N	SEP	853	-4.665	11.302	-21.064	1.00	23.29
ATOM	5875	CA	SEP	853	-5.704	11.409	-21.300	1.00	24.09
ATOM	5876	CB	SEP	853	-4.649	10.344	-24.409	1.00	26.79
ATOM	5877	CG	SEP	853	-3.658	11.717	-24.809	1.00	34.21
ATOM	5878	CH	SEP	853	-6.673	10.331	-23.141	1.00	23.49
ATOM	5879	C	SEP	853	-7.641	10.331	-23.141	1.00	21.09
ATOM	5880	N	GLY	854	-6.673	10.331	-23.141	1.00	20.00

ATOM	5881	CA	GLY	854	-7.752	9.131	-21.822	1.00	21.47
ATOM	5882	C	GLY	854	-7.620	7.744	-22.474	1.00	21.47
ATOM	5883	O	GLY	854	-8.552	6.947	-22.343	1.00	22.20
ATOM	5884	N	VAL	855	-6.472	7.453	-23.077	1.00	21.89
ATOM	5885	CA	VAL	855	-6.210	6.151	-23.636	1.00	22.73
ATOM	5886	CH	VAL	855	-4.871	6.155	-24.394	1.00	23.64
ATOM	5887	CH1	VAL	855	-4.521	4.744	-24.885	1.00	25.01
ATOM	5888	CH2	VAL	855	-4.967	7.037	-25.588	1.00	27.01
ATOM	5889	C	VAL	855	-6.160	5.071	-25.562	1.00	27.01
ATOM	5890	O	VAL	855	-6.132	3.923	-25.787	1.00	27.57
ATOM	5891	N	TYR	856	-5.172	5.448	-21.400	1.00	20.90
ATOM	5892	CA	TYR	856	-5.570	4.351	-20.212	1.00	19.68
ATOM	5893	CB	TYR	856	-4.073	4.376	-19.887	1.00	17.61
ATOM	5894	CE	TYR	856	-3.966	3.313	-18.739	1.00	18.12
ATOM	5895	CD1	TYR	856	-4.157	1.951	-18.913	1.00	17.91
ATOM	5896	CD2	TYR	856	-4.151	1.065	-17.849	1.00	17.54
ATOM	5897	CE2	TYR	856	-3.766	3.791	-17.474	1.00	19.26
ATOM	5898	CE1	TYR	856	-3.777	2.957	-16.719	1.00	16.11
ATOM	5899	CH	TYR	856	-3.658	1.557	-16.510	1.00	18.59
ATOM	5900	CH	TYR	856	-1.775	0.676	-15.444	1.00	19.37
ATOM	5901	C	TYR	856	-6.178	5.196	-14.048	1.00	14.18
ATOM	5902	O	TYR	856	-5.861	6.369	-14.775	1.00	13.54
ATOM	5903	N	PRO	857	-7.557	4.435	-13.643	1.00	21.09
ATOM	5904	CD	PRO	857	-7.190	4.358	-13.079	1.00	20.43
ATOM	5905	CA	PRO	857	-7.173	3.334	-13.661	1.00	22.15
ATOM	5906	CB	PRO	857	-7.771	2.528	-13.119	1.00	23.91
ATOM	5907	CG	PRO	857	-8.167	3.724	-16.794	1.00	24.39
ATOM	5908	C	PRO	857	-8.351	2.861	-13.734	1.00	21.83
ATOM	5909	CH	PRO	857	-8.173	3.670	-13.610	1.00	21.41
ATOM	5910	N	GLY	858	-8.176	1.797	-12.118	1.00	24.37
ATOM	5911	CA	GLY	858	-8.143	1.541	-11.874	1.00	24.39
ATOM	5912	C	GLY	858	-10.170	0.719	-11.872	1.00	23.31
ATOM	5913	O	GLY	858	-10.177	0.297	-10.112	1.00	21.97
ATOM	5914	N	GLU	859	-11.165	0.491	-12.105	1.00	25.15
ATOM	5915	CA	GLU	859	-11.144	-0.362	-11.161	1.00	26.49
ATOM	5916	CB	GLU	859	-11.135	-0.810	-10.191	1.00	31.14
ATOM	5917	CG	GLU	859	-14.441	-1.319	-12.398	1.00	34.32
ATOM	5918	CD	GLU	859	-11.110	-0.640	-11.462	1.00	37.49
ATOM	5919	CE1	GLU	859	-11.135	-1.318	-11.462	1.00	40.17
ATOM	5920	CE2	GLU	859	-11.134	0.517	-11.787	1.00	37.73
ATOM	5921	C	GLU	859	-11.111	-1.610	-11.312	1.00	28.31
ATOM	5922	O	GLU	859	-12.185	-2.267	-10.446	1.00	28.31
ATOM	5923	N	GLU	860	-11.174	-2.111	-11.779	1.00	30.15
ATOM	5924	CA	GLU	860	-11.155	-3.448	-11.313	1.00	31.44
ATOM	5925	CB	GLU	860	-9.116	-3.851	-12.119	1.00	33.44
ATOM	5926	CG	GLU	860	-8.977	-3.193	-13.593	1.00	41.78
ATOM	5927	CD	GLU	860	-7.547	-2.844	-13.251	1.00	43.62
ATOM	5928	CE1	GLU	860	-7.599	-1.837	-12.525	1.00	44.99
ATOM	5929	CE2	GLU	860	-9.133	-1.316	-12.347	1.00	44.63
ATOM	5930	C	GLU	860	-9.867	-3.495	-19.322	1.00	31.62
ATOM	5931	O	GLU	860	-9.957	-4.434	-19.177	1.00	30.70
ATOM	5932	N	HIS	861	-9.488	-2.266	-19.316	1.00	28.81
ATOM	5933	CA	HIS	861	-9.137	-2.169	-17.811	1.00	27.89
ATOM	5934	CB	HIS	861	-7.434	-1.110	-17.393	1.00	25.01
ATOM	5935	CG	HIS	861	-6.871	-1.314	-18.828	1.00	24.11
ATOM	5936	CD2	HIS	861	-6.519	-0.568	-19.880	1.00	22.52
ATOM	5937	ND1	HIS	861	-6.126	-2.412	-18.115	1.00	25.29
ATOM	5938	CE1	HIS	861	-5.139	-2.319	-18.819	1.00	22.41
ATOM	5939	NE2	HIS	861	-5.178	-1.197	-20.113	1.00	24.27
ATOM	5940	C	HIS	861	-10.135	-1.617	-17.111	1.00	27.60
ATOM	5941	O	HIS	861	-10.142	-1.305	-18.676	1.00	27.53
ATOM	5942	N	SEP	862	-11.117	-1.594	-17.612	1.00	26.94
ATOM	5943	CA	SEP	862	-12.120	-1.076	-16.834	1.00	27.85
ATOM	5944	CB	SEP	862	-13.141	0.018	-17.635	1.00	27.94
ATOM	5945	CG	SEP	862	-12.173	0.934	-18.113	1.00	29.11
ATOM	5946	C	SEP	862	-13.110	-1.165	-16.543	1.00	29.39
ATOM	5947	O	SEP	862	-13.104	-1.115	-17.254	1.00	29.74
ATOM	5948	N	PHE	863	-14.136	-1.536	-15.447	1.00	29.95
ATOM	5949	CA	PHE	863	-15.135	-2.842	-14.998	1.00	32.79
ATOM	5950	CB	PHE	863	-15.137	-3.141	-13.498	1.00	32.61
ATOM	5951	CG	PHE	863	-13.151	-3.853	-13.129	1.00	31.97
ATOM	5952	CD1	PHE	863	-12.112	-3.169	-12.587	1.00	31.63
ATOM	5953	CD2	PHE	863	-13.135	-5.134	-13.298	1.00	31.78
ATOM	5954	CE1	PHE	863	-11.177	-3.830	-12.231	1.00	30.36
ATOM	5955	CE2	PHE	863	-13.703	-5.985	-12.947	1.00	33.14
ATOM	5956	CH	PHE	863	-11.177	-5.178	-13.411	1.00	33.81
ATOM	5957	C	PHE	863	-11.781	-5.119	-15.111	1.00	34.09

ATCM	5958	O	PHE	862	-16.819	-1.031	-15.651	1.00	34.45
ATCM	5959	N	HIS	864	-17.807	-2.959	-15.042	1.00	35.05
ATCM	5960	CA	HIS	864	-19.163	-2.465	-15.752	1.00	36.87
ATCM	5961	CB	HIS	864	-19.609	-2.700	-16.700	1.00	37.63
ATCM	5962	CS	HIS	864	-18.925	-1.749	-17.682	1.00	37.41
ATCM	5963	CD2	HIS	864	-18.064	-2.012	-18.688	1.00	38.23
ATCM	5964	ND1	HIS	864	-19.110	-0.435	-17.678	1.00	38.08
ATCM	5965	CE1	HIS	864	-18.468	0.133	-18.636	1.00	37.64
ATCM	5966	NE2	HIS	864	-17.712	-0.845	-19.276	1.00	37.77
ATCM	5967	C	HIS	864	-20.172	-3.147	-14.565	1.00	37.62
ATCM	5968	C	HIS	864	-21.218	-2.579	-14.667	1.00	38.24
ATCM	5969	CKT	HIS	864	-19.794	-4.260	-13.836	1.00	39.13
ATCM	5970	C1	FPL	865	-5.357	0.634	-5.023	1.00	34.96
ATCM	5971	C2	FPL	865	-5.550	1.896	-4.228	1.00	33.72
ATCM	5972	C2	FPL	865	-2.617	2.937	-4.749	1.00	33.62
ATCM	5973	C4	FPL	865	-5.093	2.743	-4.754	1.00	33.42
ATCM	5974	C1	FPL	865	-5.910	1.547	-3.984	1.00	33.23
ATCM	5975	C5	FPL	865	-2.211	1.539	-2.744	1.00	33.38
ATCM	5976	C5	FPL	865	-4.048	1.763	-1.876	1.00	33.31
ATCM	5977	C6	FPL	865	-1.555	1.181	-2.171	1.00	33.68
ATCM	5978	C3	FPL	865	-0.975	0.909	-3.112	1.00	33.34
ATCM	5979	C4	FPL	865	-1.629	0.815	-1.557	1.00	37.05
ATCM	5980	CR	MET	901	-12.711	-23.201	-0.111	1.00	63.32
ATCM	5981	CG	MET	901	-12.530	-23.132	-1.154	1.00	62.72
ATCM	5982	CD	MET	901	-10.131	-23.671	-1.474	1.00	63.33
ATCM	5983	CE	MET	901	-10.576	-23.061	-3.144	1.00	64.11
ATCM	5984	C	MET	901	-10.847	-23.449	-0.751	1.00	53.45
ATCM	5985	C	MET	901	-10.633	-23.783	-0.773	1.00	53.36
ATCM	5986	N	MET	901	-13.683	-22.466	-2.177	1.00	58.14
ATCM	5987	CA	MET	901	-12.764	-22.573	-0.734	1.00	58.63
ATCM	5988	N	LYS	902	-13.415	-21.194	-1.712	1.00	58.31
ATCM	5989	CA	LYS	902	-8.921	-21.179	-2.177	1.00	52.69
ATCM	5990	CB	LYS	902	-8.505	-22.596	-3.181	1.00	54.41
ATCM	5991	CG	LYS	902	-6.987	-22.462	-3.184	1.00	55.33
ATCM	5992	CD	LYS	902	-6.322	-21.147	-4.153	1.00	57.24
ATCM	5993	CE	LYS	902	-6.460	-21.431	-3.141	1.00	58.67
ATCM	5994	NZ	LYS	902	-6.962	-20.416	-6.179	1.00	59.28
ATCM	5995	C	LYS	902	-6.721	-19.845	-3.481	1.00	49.10
ATCM	5996	C	LYS	902	-6.488	-19.828	-3.484	1.00	49.44
ATCM	5997	N	PRO	903	-8.342	-19.865	-1.485	1.00	44.68
ATCM	5998	CD	PRO	903	-6.546	-17.771	-1.835	1.00	43.26
ATCM	6000	CB	PRO	903	-8.590	-19.432	-0.732	1.00	43.39
ATCM	6001	CG	PRO	903	-7.827	-18.731	0.015	1.00	41.14
ATCM	6002	C	PRO	903	-8.321	-17.714	-0.230	1.00	42.64
ATCM	6003	C	PRO	903	-10.316	-19.540	0.488	1.00	37.14
ATCM	6004	C	PRO	903	-10.957	-19.042	-0.115	1.00	15.87
ATCM	6005	N	THR	904	-10.175	-20.135	1.678	1.00	32.92
ATCM	6006	CA	THR	904	-11.434	-20.469	2.127	1.00	19.68
ATCM	6007	CB	THR	904	-11.594	-19.543	3.238	1.00	19.39
ATCM	6008	CG1	THR	904	-11.161	-22.764	2.965	1.00	16.97
ATCM	6009	C	THR	904	-12.473	-21.690	3.169	1.00	16.63
ATCM	6010	C	THR	904	-11.857	-19.077	2.950	1.00	13.40
ATCM	6011	C	THR	904	-11.966	-16.560	3.759	1.00	17.17
ATCM	6012	N	THR	905	-13.447	-18.764	2.075	1.00	13.69
ATCM	6013	CA	THR	905	-13.487	-17.300	3.188	1.00	13.38
ATCM	6014	CB	THR	905	-13.470	-18.121	3.110	1.00	13.55
ATCM	6015	CG1	THR	905	-14.342	-18.416	3.111	1.00	31.91
ATCM	6016	CG2	THR	905	-12.066	-17.873	3.116	1.00	31.92
ATCM	6017	C	THR	905	-14.894	-17.398	3.118	1.00	27.90
ATCM	6018	C	THR	905	-15.603	-16.180	3.110	1.00	26.37
ATCM	6019	N	ILE	906	-15.268	-16.170	4.113	1.00	28.35
ATCM	6020	CA	ILE	906	-16.611	-16.131	3.114	1.00	29.75
ATCM	6021	CB	ILE	906	-16.854	-15.877	3.111	1.00	30.43
ATCM	6022	CG1	ILE	906	-18.112	-17.041	4.119	1.00	29.81
ATCM	6023	CG2	ILE	906	-15.559	-13.641	4.116	1.00	32.57
ATCM	6024	C	ILE	906	-15.638	-11.133	7.121	1.00	34.53
ATCM	6025	C	ILE	906	-17.111	-10.569	4.111	1.00	30.16
ATCM	6026	C	ILE	906	-18.729	-11.673	4.114	1.00	29.90
ATCM	6027	N	SER	907	-17.140	-11.621	2.915	1.00	31.36
ATCM	6028	CA	SER	907	-18.144	-11.117	1.919	1.00	32.17
ATCM	6029	CB	SER	907	-17.149	-11.923	0.917	1.00	33.19
ATCM	6030	CG1	SER	907	-16.935	-14.332	0.919	1.00	14.77
ATCM	6031	C	SER	907	-18.700	-13.944	1.911	1.00	33.13
ATCM	6032	C	SER	907	-19.860	-13.793	1.915	1.00	31.19
ATCM	6033	N	LEU	908	-17.777	-13.455	1.757	1.00	32.16
ATCM	6034	CA	LEU	908	-18.641	-12.909	1.759	1.00	31.87
ATCM	6035	CB	LEU	908	-18.778	-11.173	1.747	1.00	33.17

ATCM	6035	CG	LEU	908	-16.563	-21.785	0.966	1.00	35.17
ATCM	6036	CD1	LEU	908	-15.600	-22.812	1.107	1.00	34.73
ATCM	6037	CD2	LEU	908	-17.877	-22.441	0.175	1.00	36.87
ATCM	6038	C	LEU	908	-19.073	-20.487	2.580	1.00	30.86
ATCM	6039	D	LEU	908	-20.056	-21.987	2.227	1.00	31.03
ATCM	6040	N	LEU	909	-18.813	-20.176	3.885	1.00	29.63
ATCM	6041	CA	LEU	909	-18.705	-20.613	4.005	1.00	28.90
ATCM	6042	CB	LEU	909	-18.173	-20.219	6.200	1.00	26.59
ATCM	6043	CG	LEU	909	-17.783	-20.733	6.588	1.00	26.10
ATCM	6044	CD1	LEU	909	-17.476	-20.315	8.112	1.00	25.81
ATCM	6045	CD2	LEU	909	-17.771	-21.329	6.519	1.00	27.17
ATCM	6046	E	LEU	909	-21.109	-20.093	4.750	1.00	29.37
ATCM	6047	F	LEU	909	-22.042	-20.765	5.006	1.00	23.78
ATCM	6048	N	GLN	910	-21.148	-18.861	4.266	1.00	30.45
ATCM	6049	CA	GLN	910	-22.494	-18.234	4.960	1.00	33.43
ATCM	6050	CB	GLN	910	-22.346	-16.767	3.678	1.00	33.71
ATCM	6051	CG	GLN	910	-23.589	-16.313	3.636	1.00	37.45
ATCM	6052	CD	GLN	910	-21.345	-15.376	4.311	1.00	37.83
ATCM	6053	OE1	GLN	910	-25.078	-16.935	5.254	1.00	38.47
ATCM	6054	OE2	GLN	910	-24.172	-14.834	5.733	1.00	36.67
ATCM	6055	G	GLN	910	-23.225	-19.000	2.211	1.00	35.57
ATCM	6056	H	GLN	910	-24.445	-13.038	3.028	1.00	35.64
ATCM	6057	I	LYS	911	-22.471	-19.339	1.919	1.00	35.95
ATCM	6058	CA	LYS	911	-23.044	-20.164	0.811	1.00	36.68
ATCM	6059	CB	LYS	911	-21.947	-21.337	-0.169	1.00	38.54
ATCM	6060	CG	LYS	911	-22.480	-21.116	-1.473	1.00	41.44
ATCM	6061	CD	LYS	911	-21.484	-22.170	-2.110	1.00	42.22
ATCM	6062	OE	LYS	911	-20.210	-21.325	-2.832	1.00	41.56
ATCM	6063	NZ	LYS	911	-19.319	-22.313	-3.163	1.00	44.58
ATCM	6064	C	LYS	911	-23.488	-21.304	1.326	1.00	36.17
ATCM	6065	D	LYS	911	-24.545	-21.889	0.927	1.00	36.29
ATCM	6066	E	TYR	912	-22.777	-22.108	2.214	1.00	35.44
ATCM	6067	F	TYR	912	-23.641	-23.407	1.783	1.00	34.78
ATCM	6068	G	TYR	912	-21.945	-23.662	2.753	1.00	35.40
ATCM	6069	H	TYR	912	-20.777	-24.422	3.091	1.00	37.41
ATCM	6070	CD1	TYR	912	-19.573	-24.628	1.620	1.00	38.67
ATCM	6071	OE1	TYR	912	-18.785	-25.159	1.217	1.00	38.93
ATCM	6072	CD2	TYR	912	-20.770	-24.766	1.707	1.00	38.60
ATCM	6073	OE2	TYR	912	-19.580	-25.199	1.127	1.00	40.26
ATCM	6074	NZ	TYR	912	-18.478	-25.493	1.871	1.00	43.33
ATCM	6075	OH	TYR	912	-17.310	-26.021	1.270	1.00	41.22
ATCM	6076	I	TYR	912	-24.384	-23.390	1.316	1.00	33.39
ATCM	6077	J	TYR	912	-25.138	-24.359	2.460	1.00	31.65
ATCM	6078	N	LYS	913	-24.667	-22.167	4.111	1.00	32.88
ATCM	6079	CA	LYS	913	-15.920	-21.202	4.036	1.00	35.59
ATCM	6080	CB	LYS	913	-25.414	-21.099	5.888	1.00	33.03
ATCM	6081	CG	LYS	913	-27.132	-20.898	4.867	1.00	32.07
ATCM	6082	CD	LYS	913	-27.072	-20.884	2.415	1.00	39.62
ATCM	6083	OE	LYS	913	-28.760	-19.761	5.016	1.00	35.34
ATCM	6084	NZ	LYS	913	-26.225	-19.120	3.841	1.00	38.41
ATCM	6085	C	LYS	913	-27.032	-21.086	3.878	1.00	37.48
ATCM	6086	D	LYS	913	-28.156	-22.656	4.003	1.00	37.96
ATCM	6087	N	GLN	914	-26.891	-21.346	2.873	1.00	40.52
ATCM	6088	CA	GLN	914	-27.431	-21.161	1.846	1.00	43.74
ATCM	6089	CB	GLN	914	-27.188	-20.122	0.845	1.00	45.66
ATCM	6090	CG	GLN	914	-27.115	-18.745	1.877	1.00	48.82
ATCM	6091	CD	GLN	914	-26.888	-17.695	0.345	1.00	51.41
ATCM	6092	OE1	GLN	914	-27.132	-17.405	-0.112	1.00	53.67
ATCM	6093	OE2	GLN	914	-25.738	-17.122	0.327	1.00	53.36
ATCM	6094	G	GLN	914	-28.027	-21.181	1.183	1.00	44.78
ATCM	6095	D	GLN	914	-24.857	-21.735	0.758	1.00	44.57
ATCM	6096	N	GLN	915	-27.156	-21.314	1.008	1.00	45.74
ATCM	6097	CA	GLU	915	-17.127	-23.617	3.148	1.00	48.13
ATCM	6098	CB	GLU	915	-26.776	-21.388	-0.245	1.00	47.35
ATCM	6099	CG	GLU	915	-25.116	-21.213	-1.243	1.00	51.08
ATCM	6100	CD	GLU	915	-24.113	-23.204	-1.917	1.00	53.13
ATCM	6101	OE1	GLU	915	-24.150	-24.711	-1.175	1.00	53.11
ATCM	6102	OE2	GLU	915	-24.107	-24.181	-1.157	1.00	53.18
ATCM	6103	C	GLU	915	-27.654	-29.625	1.463	1.00	45.27
ATCM	6104	E	GLU	915	-27.177	-27.887	1.107	1.00	45.17
ATCM	6105	N	LYS	916	-27.274	-25.203	1.607	1.00	44.15
ATCM	6106	CA	LYS	916	-28.206	-26.118	0.793	1.00	48.28
ATCM	6107	CB	LYS	916	-28.587	-26.754	0.556	1.00	45.67
ATCM	6108	CG	LYS	916	-29.711	-25.741	1.545	1.00	46.18
ATCM	6109	CD	LYS	916	-29.901	-27.112	4.901	1.00	46.13
ATCM	6110	OE	LYS	916	-31.608	-23.581	4.871	1.00	51.00
ATCM	6111	NZ	LYS	916	-31.170	-24.182	4.107	1.00	51.18

AT-M	6117	C	LYS	916	-27.177	-27.249	3.976	1.00	42.34
AT-M	6118	C	LYS	916	-27.519	-28.359	4.382	1.00	42.68
AT-M	6119	N	LYS	917	-25.918	-26.949	3.673	1.00	40.67
AT-M	6119	CA	LYS	917	-24.844	-27.928	3.823	1.00	38.46
AT-M	6119	CB	LYS	917	-23.861	-27.841	3.654	1.00	39.13
AT-M	6119	CG	LYS	917	-22.696	-28.814	2.781	1.00	41.58
AT-M	6119	CD	LYS	917	-21.540	-28.465	1.851	1.00	44.05
AT-M	6119	CE	LYS	917	-21.903	-28.642	0.867	1.00	46.51
AT-M	6120	H2	LYS	917	-20.749	-28.300	-0.494	1.00	48.27
AT-M	6121	C	LYS	917	-24.095	-27.675	5.123	1.00	36.66
AT-M	6121	C	LYS	917	-23.297	-26.341	5.111	1.00	35.67
AT-M	6121	N	ARG	918	-24.355	-28.104	6.129	1.00	32.43
AT-M	6124	CA	ARG	918	-23.689	-28.777	7.420	1.00	31.81
AT-M	6121	CB	ARG	918	-24.297	-29.562	8.426	1.00	30.86
AT-M	6121	CG	ARG	918	-25.668	-28.428	8.931	1.00	32.12
AT-M	6121	CD	ARG	918	-26.346	-29.457	9.826	1.00	23.28
AT-M	6129	NE	ARG	918	-26.313	-31.121	9.084	1.00	35.83
AT-M	6129	IZ	ARG	918	-27.708	-32.301	9.644	1.00	27.33
AT-M	6131	HH1	ARG	918	-28.240	-31.541	10.747	1.00	13.73
AT-M	6131	HH2	ARG	918	-28.071	-33.036	8.801	1.00	25.50
AT-M	6131	I	ARG	918	-23.191	-28.724	7.042	1.00	29.61
AT-M	6131	I	ARG	918	-21.792	-29.661	6.437	1.00	29.96
AT-M	6131	N	PHE	919	-21.363	-27.775	7.437	1.00	26.58
AT-M	6131	CA	PHE	919	-19.911	-27.890	7.738	1.00	24.00
AT-M	6131	CB	PHE	919	-19.383	-26.623	7.082	1.00	24.17
AT-M	6131	CG	PHE	919	-19.743	-25.359	7.771	1.00	23.99
AT-M	6131	HD1	PHE	919	-18.923	-24.920	8.769	1.00	12.72
AT-M	6131	HD2	PHE	919	-20.931	-24.691	7.159	1.00	19.25
AT-M	6140	HE1	PHE	919	-19.286	-23.457	9.110	1.00	12.29
AT-M	6141	HE2	PHE	919	-21.299	-23.528	8.137	1.00	23.01
AT-M	6142	IE	PHE	919	-20.473	-23.308	9.131	1.00	23.96
AT-M	6142	I	PHE	919	-19.203	-23.897	9.073	1.00	23.65
AT-M	6144	C	PHE	919	-19.679	-27.636	10.113	1.00	22.72
AT-M	6145	N	ALA	920	-18.071	-28.789	9.043	1.00	21.97
AT-M	6146	CA	ALA	920	-17.313	-29.078	10.178	1.00	19.23
AT-M	6146	CB	ALA	920	-18.709	-30.426	10.360	1.00	18.62
AT-M	6146	C	ALA	920	-16.213	-27.968	10.445	1.00	17.18
AT-M	6146	C	ALA	920	-13.643	-27.303	9.163	1.00	17.37
AT-M	6146	N	THR	921	-16.933	-27.644	11.701	1.00	17.33
AT-M	6151	CA	THR	921	-14.903	-26.762	12.071	1.00	17.37
AT-M	6151	CB	THR	921	-15.550	-25.358	12.331	1.00	20.30
AT-M	6151	CG1	THR	921	-16.349	-24.781	11.533	1.00	24.13
AT-M	6154	CG2	THR	921	-14.492	-24.372	12.939	1.00	27.64
AT-M	6151	C	THR	921	-14.091	-27.293	13.205	1.00	14.38
AT-M	6156	C	THR	921	-14.586	-38.182	13.331	1.00	13.20
AT-M	6157	N	ILE	922	-12.861	-26.343	13.424	1.00	13.81
AT-M	6158	CA	ILE	922	-12.054	-27.487	14.431	1.00	13.12
AT-M	6158	CB	ILE	922	-11.367	-28.729	13.941	1.00	15.52
AT-M	6159	CG2	ILE	922	-10.274	-28.341	12.923	1.00	15.80
AT-M	6161	CG1	ILE	922	-10.371	-29.331	15.102	1.00	15.54
AT-M	6161	HD1	ILE	922	-10.400	-30.953	14.734	1.00	25.56
AT-M	6163	C	ILE	922	-10.963	-26.314	15.640	1.00	13.33
AT-M	6164	C	ILE	922	-10.591	-25.353	14.375	1.00	13.71
AT-M	6165	N	THR	923	-10.513	-26.773	16.162	1.00	13.37
AT-M	6166	CA	THR	923	-9.473	-25.955	16.844	1.00	11.94
AT-M	6166	CB	THR	923	-9.471	-25.979	18.403	1.00	11.46
AT-M	6166	CG1	THR	923	-9.137	-27.294	18.866	1.00	14.06
AT-M	6169	CG2	THR	923	-10.842	-25.461	18.962	1.00	11.48
AT-M	6170	C	THR	923	-8.130	-26.494	16.358	1.00	11.94
AT-M	6171	C	THR	923	-8.010	-27.662	15.998	1.00	11.93
AT-M	6172	N	ALA	924	-7.133	-29.616	16.124	1.00	10.91
AT-M	6173	CA	ALA	924	-3.783	-29.775	15.118	1.00	9.87
AT-M	6173	CB	ALA	924	-5.034	-25.381	14.350	1.00	10.69
AT-M	6173	C	ALA	924	-4.376	-24.348	16.554	1.00	9.13
AT-M	6174	C	ALA	924	-3.782	-27.751	14.738	1.00	9.88
AT-M	6179	N	TYR	925	-3.374	-25.367	16.055	1.00	8.07
AT-M	6179	CA	TYR	925	-2.757	-24.463	17.678	1.00	10.77
AT-M	6179	CB	TYR	925	-2.399	-24.799	19.143	1.00	9.54
AT-M	6180	CG	TYR	925	-4.188	-25.907	19.337	1.00	10.87
AT-M	6181	CH1	TYR	925	-4.013	-26.316	19.842	1.00	17.17
AT-M	6182	CH2	TYR	925	-5.871	-25.315	20.373	1.00	11.83
AT-M	6183	CH2	TYR	925	-5.951	-24.982	19.068	1.00	11.11
AT-M	6184	CH2	TYR	925	-6.315	-24.269	20.403	1.00	10.53
AT-M	6185	CH	TYR	925	-6.711	-25.342	20.752	1.00	11.11
AT-M	6193	OH	TYR	925	-1.945	-25.390	21.197	1.00	14.11
AT-M	6197	C	TYR	925	-1.375	-24.613	21.173	1.00	13.84
AT-M	6198	C	TYR	925	-1.473	-24.117	22.344	1.00	11.11

ATCM	6189	N	ASP	926	-1.106	-29.447	16.161	1.00	8.26
ATCM	6190	CA	ASP	926	0.250	-29.626	15.672	1.00	10.92
ATCM	6191	CR	ASP	926	0.971	-29.594	16.509	1.00	11.44
ATCM	6192	CH	ASP	926	0.378	-28.093	16.328	1.00	11.32
ATCM	6193	CD1	ASP	926	0.546	-28.093	15.247	1.00	11.50
ATCM	6194	CD2	ASP	926	-0.251	-28.093	17.274	1.00	15.55
ATCM	6195	C	ASP	926	0.283	-27.992	14.186	1.00	11.52
ATCM	6196	O	ASP	926	-0.748	-28.093	13.581	1.00	13.19
ATCM	6197	H	TYR	927	1.477	-28.093	13.610	1.00	9.04
ATCM	6198	CA	TYR	927	1.693	-28.093	12.190	1.00	9.91
ATCM	6199	CR	TYR	927	3.183	-28.093	11.848	1.00	12.47
ATCM	6200	CH	TYR	927	3.599	-28.093	10.446	1.00	13.33
ATCM	6201	C	TYR	927	3.408	-28.093	9.382	1.00	15.77
ATCM	6202	CD1	TYR	927	3.776	-28.093	8.072	1.00	17.93
ATCM	6203	CD2	TYR	927	4.176	-28.093	10.381	1.00	14.44
ATCM	6204	CH2	TYR	927	4.518	-28.093	9.092	1.00	15.72
ATCM	6205	CH	TYR	927	4.345	-27.522	7.951	1.00	18.75
ATCM	6206	CH	TYR	927	4.694	-28.093	6.708	1.00	20.14
ATCM	6207	C	TYR	927	1.236	-27.522	11.745	1.00	12.76
ATCM	6208	C	TYR	927	0.444	-27.702	10.741	1.00	12.54
ATCM	6209	N	SER	928	1.753	-28.093	12.416	1.00	11.45
ATCM	6210	CA	SER	928	1.468	-28.093	12.397	1.00	11.60
ATCM	6211	CB	SER	928	3.167	-28.093	13.877	1.00	12.68
ATCM	6212	CH	SER	928	3.577	-28.093	12.835	1.00	14.47
ATCM	6213	C	SER	928	0.002	-28.093	11.930	1.00	11.87
ATCM	6214	C	SER	928	-0.416	-28.093	11.038	1.00	11.60
ATCM	6215	N	PHE	929	-0.786	-28.093	12.997	1.00	10.71
ATCM	6216	CA	PHE	929	-2.202	-28.093	12.932	1.00	9.59
ATCM	6217	CB	PHE	929	-2.852	-28.093	14.319	1.00	11.80
ATCM	6218	CH	PHE	929	-2.828	-28.093	13.132	1.00	10.16
ATCM	6219	CD1	PHE	929	-1.801	-28.093	16.063	1.00	9.67
ATCM	6220	CD2	PHE	929	-3.183	-28.093	14.879	1.00	13.30
ATCM	6221	CH1	PHE	929	-1.125	-28.093	16.137	1.00	11.64
ATCM	6222	CH2	PHE	929	-3.122	-28.093	15.139	1.00	10.49
ATCM	6223	CH	PHE	929	-2.852	-28.093	16.465	1.00	10.80
ATCM	6224	C	PHE	929	-2.856	-28.093	15.535	1.00	10.63
ATCM	6225	C	PHE	929	-1.871	-28.093	14.180	1.00	10.20
ATCM	6226	N	ALA	930	-1.879	-28.093	12.798	1.00	10.23
ATCM	6227	CA	ALA	930	-1.703	-28.093	10.135	1.00	10.49
ATCM	6228	CB	ALA	930	-2.724	-28.093	10.540	1.00	10.94
ATCM	6229	CH	ALA	930	-2.023	-28.093	9.427	1.00	11.53
ATCM	6230	C	ALA	930	-1.021	-28.093	8.432	1.00	12.93
ATCM	6231	N	LYS	931	-1.807	-28.093	9.192	1.00	11.22
ATCM	6232	CA	LYS	931	-1.423	-28.093	7.894	1.00	11.92
ATCM	6233	CB	LYS	931	0.075	-28.093	7.897	1.00	13.90
ATCM	6234	CH	LYS	931	0.623	-28.093	6.659	1.00	19.23
ATCM	6235	CD	LYS	931	0.716	-28.093	5.467	1.00	22.53
ATCM	6236	CE	LYS	931	1.577	-28.093	4.415	1.00	26.66
ATCM	6237	NZ	LYS	931	1.255	-28.093	3.415	1.00	26.76
ATCM	6238	C	LYS	931	-2.227	-28.093	7.846	1.00	12.48
ATCM	6239	O	LYS	931	-3.737	-28.093	6.943	1.00	14.08
ATCM	6240	N	LEU	932	-2.326	-28.093	8.672	1.00	11.21
ATCM	6241	CA	LEU	932	-3.071	-28.093	8.557	1.00	11.84
ATCM	6242	CB	LEU	932	-2.965	-28.093	9.865	1.00	11.17
ATCM	6243	CH	LEU	932	-1.530	-28.093	9.354	1.00	11.63
ATCM	6244	CD1	LEU	932	-2.882	-28.093	10.946	1.00	10.37
ATCM	6245	CD2	LEU	932	-5.081	-28.093	10.059	1.00	13.21
ATCM	6246	C	LEU	932	-4.584	-28.093	8.217	1.00	14.85
ATCM	6247	O	LEU	932	-5.102	-28.093	7.309	1.00	14.10
ATCM	6248	N	PHE	933	-5.140	-28.093	7.913	1.00	13.43
ATCM	6249	CA	PHE	933	-6.538	-28.093	6.663	1.00	12.70
ATCM	6250	CB	PHE	933	-7.046	-28.093	9.691	1.00	12.50
ATCM	6251	CH	PHE	933	-6.939	-28.093	11.130	1.00	12.50
ATCM	6252	CD1	PHE	933	-7.001	-28.093	11.439	1.00	11.83
ATCM	6253	CD2	PHE	933	-6.788	-28.093	12.180	1.00	11.83
ATCM	6254	CH1	PHE	933	-6.911	-28.093	12.744	1.00	11.83
ATCM	6255	CH2	PHE	933	-6.682	-28.093	13.466	1.00	11.83
ATCM	6256	CZ	PHE	933	-6.758	-28.093	13.774	1.00	13.46
ATCM	6257	C	PHE	933	-6.786	-28.093	7.247	1.00	14.50
ATCM	6258	C	PHE	933	-6.675	-28.093	6.051	1.00	14.17
ATCM	6259	N	FLA	934	-6.010	-28.093	6.822	1.00	14.17
ATCM	6260	CA	FLA	934	-6.178	-28.093	5.485	1.00	14.17
ATCM	6261	CB	FLA	934	-5.177	-28.093	5.176	1.00	14.17
ATCM	6262	C	FLA	934	-6.000	-28.093	4.387	1.00	14.17
ATCM	6263	O	FLA	934	-6.344	-28.093	3.387	1.00	14.17
ATCM	6264	N	ASP	935	-6.344	-28.093	4.387	1.00	14.17
ATCM	6265	CA	ASP	935	-6.344	-28.093	4.387	1.00	14.17

ATOM	6266	CB	ASP	935	-3.611	-32.422	3.938	1.00	22.05
ATOM	6267	CS	ASP	935	-2.341	-31.618	3.716	1.00	24.16
ATOM	6268	OD1	ASP	935	-2.436	-30.459	3.257	1.00	28.99
ATOM	6269	OD2	ASP	935	-1.256	-32.155	4.001	1.00	24.81
ATOM	6270	C	ASP	935	-6.050	-32.583	3.497	1.00	21.74
ATOM	6271	N	ASP	935	-6.161	-33.312	2.918	1.00	21.57
ATOM	6272	N	GLU	936	-6.667	-32.770	4.441	1.00	21.61
ATOM	6273	CA	GLU	936	-8.177	-33.449	4.466	1.00	23.46
ATOM	6274	CB	GLU	936	-8.690	-34.119	5.880	1.00	22.13
ATOM	6275	CG	GLU	936	-7.196	-35.073	6.284	1.00	25.30
ATOM	6276	CD	GLU	936	-6.944	-36.134	5.181	1.00	26.05
ATOM	6277	OE1	GLU	936	-7.983	-36.627	4.664	1.00	27.73
ATOM	6278	OE2	GLU	936	-5.763	-36.418	4.890	1.00	25.51
ATOM	6279	C	GLU	936	-9.665	-37.327	4.090	1.00	23.86
ATOM	6280	N	GLU	936	-10.473	-38.387	3.923	1.00	23.31
ATOM	6281	N	GLY	937	-9.685	-37.484	3.466	1.00	24.48
ATOM	6282	CA	GLY	937	-10.577	-38.684	3.603	1.00	24.58
ATOM	6283	C	GLY	937	-11.195	-39.841	4.314	1.00	24.70
ATOM	6284	N	GLY	937	-12.126	-39.116	4.441	1.00	22.63
ATOM	6285	N	LEU	938	-10.614	-39.842	5.165	1.00	21.66
ATOM	6286	CA	LEU	938	-11.175	-40.117	5.165	1.00	22.34
ATOM	6287	CB	LEU	938	-10.343	-40.808	5.165	1.00	21.44
ATOM	6288	CC	LEU	938	-11.661	-40.815	5.165	1.00	24.49
ATOM	6289	CD1	LEU	938	-11.660	-40.860	1.165	1.00	20.46
ATOM	6290	CD2	LEU	938	-12.126	-41.116	5.165	1.00	22.65
ATOM	6291	C	LEU	938	-10.347	-40.819	5.165	1.00	22.32
ATOM	6292	C	LEU	938	-8.175	-41.792	5.165	1.00	21.13
ATOM	6293	N	ASN	939	-11.172	-42.882	5.165	1.00	19.38
ATOM	6294	CA	ASN	939	-10.417	-43.316	5.165	1.00	20.12
ATOM	6295	CB	ASN	939	-10.177	-43.119	5.165	1.00	21.00
ATOM	6296	CG	ASN	939	-10.119	-43.667	5.165	1.00	24.91
ATOM	6297	CD1	ASN	939	-8.175	-43.663	5.165	1.00	24.14
ATOM	6298	CD2	ASN	939	-10.174	-43.662	5.165	1.00	24.93
ATOM	6299	C	ASN	939	-10.179	-44.667	5.165	1.00	17.31
ATOM	6300	C	ASN	939	-10.173	-43.114	5.165	1.00	17.94
ATOM	6301	N	VAL	940	-11.174	-44.115	5.165	1.00	19.38
ATOM	6302	CA	VAL	940	-10.172	-43.664	5.165	1.00	12.99
ATOM	6303	CB	VAL	940	-10.176	-43.669	5.165	1.00	13.69
ATOM	6304	CG1	VAL	940	-10.176	-43.669	10.165	1.00	14.67
ATOM	6305	CG2	VAL	940	-10.176	-43.669	5.165	1.00	15.61
ATOM	6306	C	VAL	940	-11.179	-44.661	10.165	1.00	12.34
ATOM	6307	N	VAL	940	-11.174	-44.661	12.132	1.00	11.96
ATOM	6308	N	MET	941	-10.175	-43.112	10.167	1.00	11.66
ATOM	6309	CA	MET	941	-8.177	-43.414	10.165	1.00	11.33
ATOM	6310	CB	MET	941	-8.413	-43.892	11.884	1.00	11.91
ATOM	6311	CG	MET	941	-8.175	-43.666	10.165	1.00	13.14
ATOM	6312	CD	MET	941	-8.175	-43.412	10.162	1.00	13.23
ATOM	6313	CE	MET	941	-8.178	-43.938	9.332	1.00	16.00
ATOM	6314	C	MET	941	-8.935	-42.138	10.166	1.00	11.82
ATOM	6315	N	MET	941	-9.699	-41.166	12.771	1.00	12.66
ATOM	6316	N	LEU	942	-10.170	-42.719	14.404	1.00	10.99
ATOM	6317	CA	LEU	942	-10.174	-42.733	15.469	1.00	12.19
ATOM	6318	CB	LEU	942	-11.419	-42.136	16.240	1.00	15.75
ATOM	6319	CG	LEU	942	-11.170	-42.101	17.483	1.00	20.87
ATOM	6320	CD1	LEU	942	-11.173	-42.141	13.697	1.00	25.90
ATOM	6321	CD2	LEU	942	-11.175	-42.631	17.117	1.00	18.03
ATOM	6322	C	LEU	942	-8.173	-41.621	16.416	1.00	12.27
ATOM	6323	C	LEU	942	-8.179	-42.864	17.609	1.00	11.14
ATOM	6324	N	VAL	943	-10.170	-43.728	16.178	1.00	11.13
ATOM	6325	CA	VAL	943	-10.176	-43.763	17.464	1.00	16.82
ATOM	6326	CB	VAL	943	-10.179	-43.821	18.995	1.00	10.69
ATOM	6327	CG1	VAL	943	-10.172	-43.752	17.671	1.00	11.40
ATOM	6328	CG2	VAL	943	-10.171	-43.422	19.882	1.00	13.59
ATOM	6329	C	VAL	943	-10.171	-43.095	18.690	1.00	11.98
ATOM	6330	C	VAL	943	-10.171	-43.874	18.693	1.00	11.38
ATOM	6331	N	GLY	944	-10.171	-43.875	19.177	1.00	13.13
ATOM	6332	CA	GLY	944	-10.174	-43.572	20.361	1.00	12.63
ATOM	6333	C	GLY	944	-10.170	-43.594	22.400	1.00	11.45
ATOM	6334	O	GLY	944	-7.178	-42.149	22.170	1.00	31.17
ATOM	6335	N	ASP	945	-8.178	-43.781	22.375	1.00	19.87
ATOM	6336	CA	ASP	945	-8.174	-43.714	24.377	1.00	11.17
ATOM	6337	CB	ASP	945	-8.177	-43.519	25.173	1.00	12.84
ATOM	6338	CG	ASP	945	-10.176	-43.557	25.173	1.00	13.41
ATOM	6339	OD1	ASP	945	-10.171	-43.580	25.173	1.00	14.37
ATOM	6340	OD2	ASP	945	-10.172	-43.544	25.173	1.00	14.56
ATOM	6341	C	ASP	945	-8.176	-43.171	25.173	1.00	13.81
ATOM	6342	O	ASP	945	-7.172	-41.137	26.169	1.00	11.18

ATOM	6343	N	SER	946	-8.829	-22.019	24.292	1.00	10.80
ATOM	6344	CA	SER	946	-8.929	-23.346	25.000	1.00	11.13
ATOM	6345	CB	SER	946	-9.751	-24.182	24.109	1.00	15.04
ATOM	6346	CG	SER	946	-9.361	-24.187	22.257	1.00	13.61
ATOM	6347	C	SER	946	-7.483	-23.841	25.109	1.00	12.33
ATOM	6348	C	SER	946	-7.162	-24.346	25.177	1.00	12.77
ATOM	6349	N	LEU	947	-6.608	-21.341	24.131	1.00	9.71
ATOM	6350	CA	LEU	947	-5.139	-21.340	24.121	1.00	10.13
ATOM	6351	CB	LEU	947	-4.346	-22.834	23.269	1.00	9.43
ATOM	6352	CG	LEU	947	-4.241	-21.343	24.269	1.00	10.63
ATOM	6353	CD1	LEU	947	-3.110	-21.349	24.101	1.00	10.13
ATOM	6354	CD2	LEU	947	-3.955	-21.343	24.190	1.00	11.13
ATOM	6355	C	LEU	947	-4.607	-22.841	24.217	1.00	9.43
ATOM	6356	O	LEU	947	-3.627	-24.638	26.114	1.00	10.82
ATOM	6357	N	GLY	948	-5.214	-22.444	26.468	1.00	9.77
ATOM	6358	CA	GLY	948	-4.743	-23.333	27.171	1.00	9.61
ATOM	6359	C	GLY	948	-4.768	-22.442	26.451	1.00	10.76
ATOM	6360	O	GLY	948	-3.986	-23.447	27.579	1.00	10.19
ATOM	6361	N	MET	949	-5.684	-24.443	24.225	1.00	10.44
ATOM	6362	CA	MET	949	-5.795	-23.447	24.261	1.00	12.40
ATOM	6363	CB	MET	949	-7.271	-23.447	24.149	1.00	12.30
ATOM	6364	CG	MET	949	-7.987	-23.443	24.139	1.00	11.40
ATOM	6365	CD	MET	949	-9.720	-23.144	24.441	1.00	23.14
ATOM	6366	CE	MET	949	-9.555	-26.445	24.269	1.00	20.14
ATOM	6367	O	MET	949	-5.153	-24.444	24.113	1.00	12.79
ATOM	6368	C	MET	949	-4.272	-23.443	24.141	1.00	11.01
ATOM	6369	N	THR	950	-5.677	-23.443	24.112	1.00	11.13
ATOM	6370	CA	THR	950	-5.061	-24.104	26.171	1.00	11.34
ATOM	6371	CB	THR	950	-5.335	-24.111	24.175	1.00	11.77
ATOM	6372	CG1	THR	950	-5.865	-24.446	24.117	1.00	2.10
ATOM	6373	CG2	THR	950	-5.492	-24.447	23.171	1.00	11.75
ATOM	6374	C	THR	950	-3.570	-23.447	24.122	1.00	11.92
ATOM	6375	O	THR	950	-2.687	-24.443	24.175	1.00	11.14
ATOM	6376	N	VAL	951	-3.064	-24.449	24.269	1.00	11.21
ATOM	6377	CA	VAL	951	-1.663	-24.449	24.230	1.00	11.41
ATOM	6378	CB	VAL	951	-1.932	-24.447	24.174	1.00	11.11
ATOM	6379	CG1	VAL	951	-0.354	-24.447	24.269	1.00	11.39
ATOM	6380	CG2	VAL	951	-0.217	-24.441	24.113	1.00	11.04
ATOM	6381	C	VAL	951	-0.769	-24.443	24.202	1.00	11.91
ATOM	6382	O	VAL	951	0.242	-24.445	24.112	1.00	11.29
ATOM	6383	N	GLN	952	-1.146	-24.443	24.180	1.00	11.78
ATOM	6384	CA	GLN	952	-0.354	-24.447	24.112	1.00	11.90
ATOM	6385	CB	GLN	952	-0.668	-24.449	24.240	1.00	11.47
ATOM	6386	CG	GLN	952	-0.456	-24.445	24.149	1.00	11.72
ATOM	6387	CD	GLN	952	-0.885	-24.442	24.109	1.00	11.55
ATOM	6388	CE1	GLN	952	-1.405	-24.447	24.113	1.00	11.10
ATOM	6389	NE2	GLN	952	-0.571	-24.445	24.147	1.00	11.63
ATOM	6390	C	GLN	952	-0.534	-24.445	24.208	1.00	12.56
ATOM	6391	O	GLN	952	0.237	-24.449	24.203	1.00	11.66
ATOM	6392	N	GLY	953	-1.667	-24.441	24.112	1.00	11.58
ATOM	6393	CA	GLY	953	-1.885	-24.441	24.179	1.00	12.40
ATOM	6394	C	GLY	953	-3.460	-24.443	24.206	1.00	12.68
ATOM	6395	O	GLY	953	-2.246	-24.441	24.114	1.00	11.99
ATOM	6396	N	HIS	954	-3.118	-24.442	24.171	1.00	12.29
ATOM	6397	CA	HIS	954	-3.727	-24.446	24.177	1.00	12.78
ATOM	6398	CB	HIS	954	-3.849	-24.441	24.200	1.00	11.26
ATOM	6399	CG	HIS	954	-2.149	-24.445	24.146	1.00	11.33
ATOM	6400	CD	HIS	954	-1.673	-24.440	24.110	1.00	11.67
ATOM	6401	ND1	HIS	954	-1.706	-24.442	24.111	1.00	11.34
ATOM	6402	CE1	HIS	954	-0.440	-24.440	24.115	1.00	11.90
ATOM	6403	NE1	HIS	954	-0.801	-24.441	24.112	1.00	11.61
ATOM	6404	C	HIS	954	-0.234	-24.444	24.177	1.00	11.76
ATOM	6405	O	HIS	954	-0.405	-24.444	24.113	1.00	11.87
ATOM	6406	N	ASP	955	-3.444	-24.446	24.111	1.00	11.74
ATOM	6407	CA	ASP	955	-3.451	-24.443	24.114	1.00	11.66
ATOM	6408	CB	ASP	955	-3.451	-24.443	24.113	1.00	11.17
ATOM	6409	CG	ASP	955	-3.444	-24.447	24.113	1.00	11.76
ATOM	6410	OD1	ASP	955	-1.654	-22.566	24.115	1.00	11.00
ATOM	6411	OD2	ASP	955	-0.445	-23.231	24.112	1.00	11.90
ATOM	6412	C	ASP	955	-0.441	-24.441	24.111	1.00	11.80
ATOM	6413	O	ASP	955	-0.445	-24.441	24.112	1.00	11.76
ATOM	6414	N	SER	946	-8.829	-22.019	24.292	1.00	10.80
ATOM	6415	CA	SER	946	-8.929	-23.346	25.000	1.00	11.13
ATOM	6416	CB	SER	946	-9.751	-24.182	24.109	1.00	15.04
ATOM	6417	CG	SER	946	-9.361	-24.187	22.257	1.00	13.61
ATOM	6418	C	SER	946	-7.483	-23.841	25.109	1.00	12.33
ATOM	6419	C	SER	946	-7.162	-24.346	25.177	1.00	12.77

ATOM	6420	N	THR	957	-8.997	-20.955	20.953	1.00	12.70
ATOM	6421	CA	THR	957	-8.495	-20.153	20.734	1.00	11.18
ATOM	6422	CB	THR	957	-9.579	-20.165	20.650	1.00	10.23
ATOM	6423	CG1	THR	957	-10.710	-19.468	20.717	1.00	12.56
ATOM	6424	CG2	THR	957	-10.017	-21.556	20.731	1.00	13.39
ATOM	6425	CH2	THR	957	-8.547	-18.864	20.114	1.00	10.00
ATOM	6426	CH3	THR	957	-7.415	-18.164	20.155	1.00	9.13
ATOM	6427	N	LEU	958	-7.873	-18.671	21.318	1.00	11.19
ATOM	6428	CA	LEU	958	-8.042	-17.899	21.719	1.00	10.48
ATOM	6429	CB	LEU	958	-4.483	-16.956	21.167	1.00	11.35
ATOM	6430	CG	LEU	958	-3.062	-16.299	21.380	1.00	14.18
ATOM	6431	CD1	LEU	958	-10.454	-17.887	22.055	1.00	13.18
ATOM	6432	CD2	LEU	958	-10.159	-15.261	24.824	1.00	16.73
ATOM	6433	CH	LEU	958	-6.589	-16.545	21.115	1.00	10.13
ATOM	6434	CH2	LEU	958	-6.306	-15.413	21.136	1.00	10.34
ATOM	6435	N	PEP	959	-5.611	-17.417	21.814	1.00	11.15
ATOM	6436	CA	PEP	959	-5.094	-16.691	22.549	1.00	11.19
ATOM	6437	CB	PEP	959	-4.711	-17.015	21.645	1.00	11.16
ATOM	6438	CG	PEP	959	-4.417	-18.170	22.784	1.00	11.32
ATOM	6439	CH	PEP	959	-4.429	-19.328	22.177	1.00	11.11
ATOM	6440	CH2	PEP	959	-4.112	-16.711	21.127	1.00	10.11
ATOM	6441	CH3	PEP	959	-3.771	-16.856	20.841	1.00	9.15
ATOM	6442	N	VAL	960	-4.470	-17.139	20.734	1.00	10.44
ATOM	6443	CA	VAL	960	-4.171	-16.824	20.827	1.00	9.12
ATOM	6444	CB	VAL	960	-5.146	-17.047	20.858	1.00	10.11
ATOM	6445	CG1	VAL	960	-4.078	-18.432	20.406	1.00	10.19
ATOM	6446	CG2	VAL	960	-3.114	-19.116	20.513	1.00	11.15
ATOM	6447	CH	VAL	960	-4.017	-18.435	20.435	1.00	11.03
ATOM	6448	CH2	VAL	960	-4.031	-14.123	20.610	1.00	9.13
ATOM	6449	CH3	VAL	960	-3.782	-13.013	20.911	1.00	11.19
ATOM	6450	N	THR	961	-3.170	-18.010	20.153	1.00	11.19
ATOM	6451	CA	THR	961	-3.111	-17.827	20.143	1.00	10.19
ATOM	6452	CB1	THR	961	-4.001	-18.290	20.510	1.00	21.15
ATOM	6453	CB2	THR	961	-3.527	-18.461	20.035	1.00	21.14
ATOM	6454	CH	THR	961	-2.014	-18.623	20.940	1.00	11.16
ATOM	6455	CH2	THR	961	-2.175	-14.795	20.722	1.00	9.13
ATOM	6456	CH3	THR	961	-2.078	-13.171	20.613	1.00	8.12
ATOM	6457	N	VAL	962	-1.177	-17.770	20.133	1.00	10.44
ATOM	6458	CA	VAL	962	-3.111	-16.813	20.704	1.00	11.17
ATOM	6459	CB1	VAL	962	-3.144	-18.234	20.447	1.00	10.16
ATOM	6460	CB2	VAL	962	-4.464	-18.841	20.640	1.00	10.11
ATOM	6461	CH	VAL	962	-1.812	-18.540	20.386	1.00	10.14
ATOM	6462	CH2	VAL	962	-1.631	-13.013	20.434	1.00	10.19
ATOM	6463	CH3	VAL	962	-0.656	-12.142	20.088	1.00	9.18
ATOM	6464	N	ALA	963	-0.812	-12.834	20.439	1.00	10.18
ATOM	6465	CA	ALA	963	-1.732	-12.134	20.737	1.00	10.44
ATOM	6466	CB	ALA	963	-3.564	-14.130	20.126	1.00	10.44
ATOM	6467	CH	ALA	963	-1.038	-14.743	20.276	1.00	10.07
ATOM	6468	CH2	ASP	964	-0.041	-14.886	20.120	1.00	11.44
ATOM	6469	CA	ASP	964	-0.144	-15.316	20.047	1.00	11.54
ATOM	6470	CB	ASP	964	-0.818	-16.261	20.749	1.00	11.14
ATOM	6471	CG	ASP	964	-0.046	-16.816	20.571	1.00	13.23
ATOM	6472	CD1	ASP	964	-1.279	-16.741	20.521	1.00	11.81
ATOM	6473	CD2	ASP	964	-0.617	-16.761	20.649	1.00	12.45
ATOM	6474	CH	ASP	964	-0.966	-16.682	20.183	1.00	11.21
ATOM	6475	N	ILE	965	-0.599	-17.561	20.048	1.00	8.19
ATOM	6476	CA	ILE	965	-2.112	-16.637	20.680	1.00	8.16
ATOM	6477	CB	ILE	965	-2.978	-16.442	20.153	1.00	9.06
ATOM	6478	CG	ILE	965	-4.279	-15.435	20.599	1.00	9.53
ATOM	6479	CH	ILE	965	-3.077	-15.617	20.296	1.00	10.59
ATOM	6480	CG1	ILE	965	-5.125	-15.814	20.813	1.00	8.00
ATOM	6481	CG2	ILE	965	-5.879	-17.105	20.733	1.00	9.16
ATOM	6482	CH	ILE	965	-2.241	-15.970	20.244	1.00	8.11
ATOM	6483	CH2	ILE	965	-2.375	-16.775	20.267	1.00	8.11
ATOM	6484	CH3	ILE	965	-1.518	-14.671	20.221	1.00	9.13
ATOM	6485	N	ALA	966	-0.771	-14.343	20.026	1.00	10.18
ATOM	6486	CA	ALA	966	-0.171	-13.046	20.435	1.00	10.51
ATOM	6487	CB	ALA	966	0.311	-15.479	20.665	1.00	9.25
ATOM	6488	CH	ALA	966	0.675	-15.674	20.444	1.00	8.05
ATOM	6489	CH2	ALA	966	0.974	-16.673	20.130	1.00	7.13
ATOM	6490	CH3	ALA	966	2.077	-17.062	20.487	1.00	7.41
ATOM	6491	N	TYR	967	2.662	-17.463	19.847	1.00	8.25
ATOM	6492	CA	TYR	967	3.671	-18.573	19.775	1.00	9.15
ATOM	6493	CB	TYR	967	4.858	-18.406	19.181	1.00	10.05
ATOM	6494	CG	TYR	967	5.787	-19.444	19.151	1.00	12.77
ATOM	6495	CH	TYR	967	3.776	-19.836	20.114	1.00	9.43
ATOM	6496	CH2	TYR	967	4.217	-20.836	20.278	1.00	13.10

ATM	6497	CZ	TYR	967	5.462	-20.673	19.695	1.00	13.29
ATM	6498	OH	TYR	967	5.194	-11.697	19.655	1.00	13.95
ATM	6499	C	TYR	967	1.314	-18.166	17.732	1.00	6.51
ATM	6500	O	TYR	967	2.113	-18.145	16.976	1.00	5.94
ATM	6501	N	HIS	968	0.417	-18.183	19.136	1.00	9.58
ATM	6502	IA	HIS	968	-1.226	-18.181	17.141	1.00	9.47
ATM	6503	CB	HIS	968	-1.118	-18.183	18.184	1.00	8.45
ATM	6504	CG	HIS	968	-0.573	-18.181	18.688	1.00	9.15
ATM	6505	CD2	HIS	968	-0.587	-18.180	21.111	1.00	8.18
ATM	6506	ND1	HIS	968	-0.147	-18.180	19.684	1.00	8.18
ATM	6507	CE1	HIS	968	0.114	-18.182	21.119	1.00	9.12
ATM	6508	NE2	HIS	968	0.314	-18.183	21.693	1.00	7.46
ATM	6509	C	HIS	968	-0.429	-18.184	16.463	1.00	10.81
ATM	6510	O	HIS	968	-1.087	-18.180	15.155	1.00	9.81
ATM	6511	N	THR	969	-1.468	-18.186	16.187	1.00	10.69
ATM	6512	CA	THR	969	-1.125	-18.689	18.601	1.00	3.73
ATM	6513	CB	THR	969	-0.713	-18.186	18.148	1.00	11.74
ATM	6514	CG1	THR	969	-0.878	-18.184	18.696	1.00	12.60
ATM	6515	CG2	THR	969	-1.116	-18.181	18.141	1.00	10.82
ATM	6516	C	THR	969	-1.110	-18.181	18.142	1.00	10.38
ATM	6517	O	THR	969	-1.006	-18.181	18.119	1.00	10.24
ATM	6518	N	ALA	970	1.111	-18.183	14.116	1.00	3.17
ATM	6519	IA	ALA	970	1.000	-18.184	14.111	1.00	3.33
ATM	6520	CB	ALA	970	1.000	-18.181	14.111	1.00	3.66
ATM	6521	C	ALA	970	1.000	-18.186	14.111	1.00	10.42
ATM	6522	O	ALA	970	1.000	-18.181	14.111	1.00	10.11
ATM	6523	N	ALA	971	1.111	-18.180	13.683	1.00	1.79
ATM	6524	CA	ALA	971	1.000	-18.186	13.111	1.00	1.61
ATM	6525	CB	ALA	971	1.000	-18.186	14.111	1.00	10.11
ATM	6526	C	ALA	971	1.000	-18.182	12.110	1.00	1.53
ATM	6527	O	ALA	971	1.111	-18.186	11.110	1.00	10.59
ATM	6528	N	VAL	972	-1.143	-20.116	12.112	1.00	0.37
ATM	6529	CA	VAL	972	-1.111	-20.117	12.117	1.00	1.86
ATM	6530	CB	VAL	972	-1.001	-20.112	12.110	1.00	1.10
ATM	6531	CG1	VAL	972	-1.000	-20.113	12.110	1.00	1.13
ATM	6532	CG2	VAL	972	-1.000	-20.110	14.111	1.00	1.11
ATM	6533	C	VAL	972	-1.000	-20.110	11.111	1.00	1.13
ATM	6534	O	VAL	972	-1.000	-20.110	11.111	1.00	1.13
ATM	6535	N	AFG	973	-1.000	-20.111	11.111	1.00	1.13
ATM	6536	CA	AFG	973	-1.000	-20.111	11.111	1.00	1.13
ATM	6537	CB	AFG	973	-1.111	-20.116	9.111	1.00	1.13
ATM	6538	CG	AFG	973	-1.111	-20.116	7.111	1.00	1.13
ATM	6539	CD	AFG	973	-1.111	-20.116	7.111	1.00	1.13
ATM	6540	NE	AFG	973	-1.111	-20.116	7.111	1.00	1.13
ATM	6541	CG	AFG	973	-1.111	-20.116	7.11		
ATM	6542	DH1	AFG	973	-4.782	-17.379	7.149	1.00	11.66
ATM	6543	DH2	AFG	973	-4.393	-18.189	6.443	1.00	11.11
ATM	6544	C	AFG	973	-5.819	-17.145	7.543	1.00	1.11
ATM	6545	O	AFG	973	-0.119	-20.186	8.149	1.00	11.81
ATM	6546	N	AFG	974	-0.478	-20.181	7.149	1.00	11.11
ATM	6547	CA	AFG	974	0.889	-20.173	8.149	1.00	11.91
ATM	6548	CB	AFG	974	1.471	-21.154	8.149	1.00	12.60
ATM	6549	CG	AFG	974	3.151	-21.161	9.649	1.00	10.94
ATM	6550	CD	AFG	974	3.826	-20.170	9.649	1.00	11.59
ATM	6551	EH	AFG	974	5.061	-20.450	9.649	1.00	11.74
ATM	6552	C	AFG	974	5.711	-18.147	10.149	1.00	11.85
ATM	6553	CG	AFG	974	5.451	-18.130	11.649	1.00	18.61
ATM	6554	DH1	AFG	974	5.111	-18.144	10.149	1.00	17.71
ATM	6555	DH2	AFG	974	5.861	-17.133	11.649	1.00	16.11
ATM	6556	C	AFG	974	1.501	-20.186	7.149	1.00	11.55
ATM	6557	O	AFG	974	1.339	-20.181	8.149	1.00	16.31
ATM	6558	N	GLU	975	0.314	-20.183	8.149	1.00	11.23
ATM	6559	CG	GLU	975	0.417	-20.186	8.149	1.00	11.14
ATM	6560	C	GLU	975	-0.111	-20.184	7.149	1.00	11.25
ATM	6561	O	GLU	975	-0.314	-20.181	8.149	1.00	11.99
ATM	6562	N	ALA	976	-1.411	-21.167	7.149	1.00	11.12
ATM	6563	CA	ALA	976	-2.111	-21.180	6.441	1.00	11.30
ATM	6564	CB	ALA	976	-4.111	-24.121	7.149	1.00	10.07
ATM	6565	C	ALA	976	-2.312	-21.140	5.841	1.00	11.51
ATM	6566	O	ALA	976	-3.814	-21.171	6.141	1.00	12.15
ATM	6567	I	PRO	977	-3.118	-21.111	4.149	1.00	14.78
ATM	6568	CD	PRO	977	-1.111	-20.191	4.149	1.00	11.34
ATM	6569	CA	PRO	977	-2.119	-20.173	4.149	1.00	15.20
ATM	6570	CB	PRO	977	-1.014	-20.183	3.104	1.00	15.26
ATM	6571	CG	PRO	977	-0.919	-20.205	3.885	1.00	20.17
ATM	6572	C	PRO	977	-3.440	-20.324	3.641	1.00	15.15
ATM	6573	O	PRO	977	-4.712	-19.111	3.441	1.00	15.71
ATM	6574	N	ASN	978	1.314	-21.179	3.179	1.00	15.08

ATCM	6574	CA	ASN	978	-5.616	-70.924	2.631	1.00	16.97
ATCM	6575	CB	ASN	978	-5.770	-71.725	1.430	1.00	21.84
ATCM	6576	CG	ASN	978	-4.692	-21.397	0.115	1.00	24.37
ATCM	6577	CD1	ASN	978	-4.473	-70.232	-0.020	1.00	26.80
ATCM	6578	CD2	ASN	978	-4.013	-22.422	-0.185	1.00	28.38
ATCM	6579	C	ASN	978	-6.856	-21.137	3.497	1.00	15.81
ATCM	6580	C	ASN	978	-7.074	-20.949	1.946	1.00	16.34
ATCM	6581	N	CYS	979	-6.071	-21.541	4.745	1.00	15.45
ATCM	6582	CA	CYS	979	-7.413	-21.777	5.197	1.00	15.35
ATCM	6583	CB	CYS	979	-7.417	-22.677	6.403	1.00	15.73
ATCM	6584	CG	CYS	979	-6.617	-21.777	6.193	1.00	17.53
ATCM	6585	C	CYS	979	-8.163	-20.447	6.096	1.00	13.52
ATCM	6586	C	CYS	979	-7.463	-19.415	6.035	1.00	15.76
ATCM	6587	N	LEU	980	-9.703	-20.697	6.559	1.00	13.60
ATCM	6588	CA	LEU	980	-10.396	-19.457	7.148	1.00	11.99
ATCM	6589	CB	LEU	980	-11.034	-19.540	7.017	1.00	13.15
ATCM	6590	CG	LEU	980	-12.747	-18.557	7.735	1.00	13.36
ATCM	6591	CD1	LEU	980	-12.749	-17.144	7.313	1.00	17.14
ATCM	6592	CD2	LEU	980	-14.239	-18.377	7.628	1.00	13.60
ATCM	6593	C	LEU	980	-9.479	-19.627	8.634	1.00	11.60
ATCM	6594	C	LEU	980	-10.336	-20.601	9.162	1.00	11.81
ATCM	6595	C	LEU	980	-2.117	-16.677	9.029	1.00	11.13
ATCM	6596	CA	LEU	980	-3.177	-18.760	10.447	1.00	9.58
ATCM	6597	CB	LEU	980	-7.112	-13.435	10.337	1.00	10.99
ATCM	6598	CG	LEU	980	-6.145	-13.657	11.639	1.00	12.12
ATCM	6599	CD1	LEU	980	-4.741	-13.707	11.090	1.00	13.07
ATCM	6600	CD2	LEU	980	-6.412	-17.977	12.747	1.00	15.27
ATCM	6601	C	LEU	980	-3.311	-17.822	11.448	1.00	16.37
ATCM	6602	C	LEU	980	-3.177	-16.677	11.301	1.00	11.10
ATCM	6603	N	LEU	980	-9.474	-18.334	10.445	1.00	9.54
ATCM	6604	CA	LEU	980	-10.674	-17.564	13.485	1.00	10.87
ATCM	6605	CB	LEU	980	-11.948	-18.140	13.951	1.00	12.12
ATCM	6606	CG	LEU	980	-12.152	-17.864	13.985	1.00	13.63
ATCM	6607	CD1	LEU	980	-12.947	-16.489	11.715	1.00	13.63
ATCM	6608	CD2	LEU	980	-14.414	-18.415	13.782	1.00	14.33
ATCM	6609	C	LEU	980	-9.679	-17.532	14.675	1.00	12.43
ATCM	6610	C	LEU	980	-8.971	-18.521	14.951	1.00	12.63
ATCM	6611	N	ALA	983	-9.549	-16.420	15.364	1.00	11.23
ATCM	6612	CA	ALA	983	-8.745	-16.124	16.513	1.00	11.23
ATCM	6613	CB	ALA	983	-7.490	-15.842	16.217	1.00	9.82
ATCM	6614	C	ALA	983	-6.475	-15.075	17.682	1.00	9.23
ATCM	6615	C	ALA	983	-10.643	-14.061	17.537	1.00	11.64
ATCM	6616	N	ASP	984	-9.412	-16.347	18.829	1.00	10.15
ATCM	6617	CA	ASP	984	-10.116	-15.823	20.076	1.00	11.00
ATCM	6618	CB	ASP	984	-10.118	-16.871	21.148	1.00	14.03
ATCM	6619	CG	ASP	984	-11.312	-17.763	21.179	1.00	16.37
ATCM	6620	CD1	ASP	984	-12.315	-17.473	20.446	1.00	14.30
ATCM	6621	CD2	ASP	984	-11.314	-18.715	21.923	1.00	14.64
ATCM	6622	C	ASP	984	-9.380	-14.727	20.562	1.00	10.62
ATCM	6623	C	ASP	984	-8.161	-14.939	20.524	1.00	10.17
ATCM	6624	N	LEU	985	-10.151	-13.783	21.137	1.00	10.79
ATCM	6625	CA	LEU	985	-4.529	-12.787	21.864	1.00	11.87
ATCM	6626	CB	LEU	985	-10.923	-11.795	21.763	1.00	12.83
ATCM	6627	CG	LEU	985	-10.091	-10.110	20.479	1.00	14.09
ATCM	6628	CD1	LEU	985	-10.517	-9.965	20.645	1.00	16.64
ATCM	6629	CD2	LEU	985	-3.613	-10.142	20.102	1.00	17.01
ATCM	6630	C	LEU	985	-4.125	-13.164	23.177	1.00	11.19
ATCM	6631	C	LEU	985	-10.840	-11.750	23.607	1.00	12.15
ATCM	6632	N	PRO	986	-8.651	-12.815	24.034	1.00	10.32
ATCM	6633	CA	PRO	986	-7.180	-12.761	23.635	1.00	10.52
ATCM	6634	CB	PRO	986	-8.098	-13.006	25.072	1.00	11.35
ATCM	6635	CG	PRO	986	-7.128	-14.011	25.033	1.00	12.21
ATCM	6636	CD1	PRO	986	-6.563	-13.063	25.015	1.00	12.79
ATCM	6637	C	PRO	986	-9.009	-12.036	23.482	1.00	16.95
ATCM	6638	C	PRO	986	-9.521	-11.994	23.135	1.00	16.33
ATCM	6639	N	PHE	987	-9.064	-11.064	23.084	1.00	9.43
ATCM	6640	CA	PHE	987	-8.013	-11.035	23.956	1.00	10.31
ATCM	6641	CB	PHE	987	-9.241	-11.732	23.118	1.00	10.30
ATCM	6642	CG	PHE	987	-9.770	-12.934	23.418	1.00	11.95
ATCM	6643	CD1	PHE	987	-11.554	-12.630	23.823	1.00	11.08
ATCM	6644	CD2	PHE	987	-8.095	-12.697	23.165	1.00	11.62
ATCM	6645	C	PHE	987	-11.172	-11.999	23.654	1.00	10.41
ATCM	6646	C	PHE	987	-8.015	-12.070	23.493	1.00	10.99
ATCM	6647	CA	PHE	987	-10.196	-11.724	23.885	1.00	13.98
ATCM	6648	C	PHE	987	-9.421	-11.491	23.955	1.00	11.22
ATCM	6649	C	PHE	987	-8.123	-11.710	23.661	1.00	10.64
ATCM	6650	N	PHE	987	-10.121	-10.509	23.137	1.00	10.98

ATCM	6651	CA	MET	988	-10.118	-9.153	29.774	1.00	12.00
ATCM	6652	CF	MET	988	-9.447	-8.854	30.630	1.00	11.75
ATCM	6653	CG	MET	988	-9.721	-7.436	31.166	1.00	13.31
ATCM	6654	SD	MET	988	-11.475	-7.116	31.566	1.00	13.55
ATCM	6655	CH	MET	988	-11.578	-7.585	33.163	1.00	18.85
ATCM	6656	C	MET	988	-9.360	-8.512	28.119	1.00	13.38
ATCM	6657	D	MET	988	-8.568	-7.556	28.411	1.00	16.70
ATCM	6658	N	ALA	989	-9.420	-9.013	26.967	1.00	11.97
ATCM	6659	CA	ALA	989	-8.681	-8.450	25.916	1.00	12.87
ATCM	6660	CB	ALA	989	-8.072	-9.363	24.663	1.00	11.19
ATCM	6661	C	ALA	989	-9.587	-7.154	24.663	1.00	12.13
ATCM	6662	O	ALA	989	-9.158	-7.913	23.638	1.00	14.14
ATCM	6663	N	TYR	990	-10.853	-7.391	25.349	1.00	11.11
ATCM	6664	CA	TYR	990	-11.786	-6.533	24.644	1.00	11.34
ATCM	6665	CB	TYR	990	-12.591	-7.352	23.960	1.00	11.56
ATCM	6666	CG	TYR	990	-13.160	-8.663	24.140	1.00	14.52
ATCM	6667	CD1	TYR	990	-14.464	-8.776	24.543	1.00	11.96
ATCM	6668	CE1	TYR	990	-14.979	-9.979	25.042	1.00	14.62
ATCM	6669	CD2	TYR	990	-12.727	-9.862	24.367	1.00	12.94
ATCM	6670	CE2	TYR	990	-12.823	-11.017	24.339	1.00	11.62
ATCM	6671	C1	TYR	990	-14.154	-11.091	25.663	1.00	15.44
ATCM	6672	OM	TYR	990	-14.727	-12.277	25.663	1.00	13.21
ATCM	6673	C	TYR	990	-12.866	-5.811	25.711	1.00	12.43
ATCM	6674	O	TYR	990	-12.906	-5.689	25.461	1.00	14.32
ATCM	6675	N	ALA	991	-12.116	-5.460	26.917	1.00	12.73
ATCM	6676	CA	ALA	991	-12.844	-4.710	27.313	1.00	12.56
ATCM	6677	CB	ALA	991	-11.827	-4.561	29.114	1.00	11.46
ATCM	6678	C	ALA	991	-12.434	-3.464	27.476	1.00	12.17
ATCM	6679	O	ALA	991	-14.413	-2.963	28.144	1.00	12.18
ATCM	6680	N	THR	992	-12.173	-2.813	26.855	1.00	13.27
ATCM	6681	CA	THR	992	-12.313	-1.357	25.267	1.00	13.22
ATCM	6682	CB	THR	992	-12.180	-0.753	26.942	1.00	15.15
ATCM	6683	CD1	THR	992	-11.669	-0.467	25.938	1.00	15.35
ATCM	6684	CD2	THR	992	-11.136	-0.156	27.263	1.00	15.49
ATCM	6685	C	THR	992	-12.997	-1.640	24.944	1.00	15.61
ATCM	6686	D	THR	992	-12.116	-2.463	23.965	1.00	11.18
ATCM	6687	N	PRO	993	-12.344	-0.689	23.686	1.00	14.16
ATCM	6688	CA	PRO	993	-12.021	-0.603	24.162	1.00	14.65
ATCM	6689	CB	PRO	993	-13.121	-0.912	22.263	1.00	15.27
ATCM	6690	CD	PRO	993	-14.665	0.189	21.796	1.00	13.69
ATCM	6691	CG	PRO	993	-15.461	0.163	22.781	1.00	14.48
ATCM	6692	C	PRO	993	-12.279	-0.675	21.794	1.00	15.17
ATCM	6693	D	PRO	993	-11.145	-1.463	20.979	1.00	14.48
ATCM	6694	N	GLU	994	-11.656	0.343	22.363	1.00	14.90
ATCM	6695	CA	GLU	994	-10.284	0.714	22.068	1.00	16.61
ATCM	6696	CB	GLU	994	-9.847	1.861	22.961	1.00	20.94
ATCM	6697	CG	GLU	994	-8.873	2.662	22.615	1.00	29.36
ATCM	6698	CD	GLU	994	-8.315	3.867	22.117	1.00	32.49
ATCM	6699	CE1	GLU	994	-7.483	3.719	24.109	1.00	35.55
ATCM	6700	CE2	GLU	994	-6.223	4.334	23.038	1.00	33.67
ATCM	6701	C	GLU	994	-9.313	-0.417	22.166	1.00	15.95
ATCM	6702	O	GLU	994	-8.129	-0.675	21.101	1.00	14.79
ATCM	6703	N	GLN	995	-9.455	-1.170	22.661	1.00	14.73
ATCM	6704	CA	GLN	995	-8.586	-2.307	22.625	1.00	14.57
ATCM	6705	CB	GLN	995	-8.753	-2.743	22.668	1.00	15.35
ATCM	6706	CG	GLN	995	-8.115	-1.765	22.634	1.00	22.47
ATCM	6707	CD	GLN	995	-8.166	-2.715	22.480	1.00	26.05
ATCM	6708	CE1	GLN	995	-7.469	-3.057	22.666	1.00	27.46
ATCM	6709	CE2	GLN	995	-6.414	-1.980	22.125	1.00	29.12
ATCM	6710	C	GLN	995	-8.692	-3.433	22.664	1.00	11.23
ATCM	6711	O	GLN	995	-7.962	-4.142	21.722	1.00	12.90
ATCM	6712	N	ALA	996	-10.116	-3.612	21.661	1.00	11.62
ATCM	6713	CA	ALA	996	-10.578	-4.647	21.422	1.00	10.29
ATCM	6714	CB	ALA	996	-11.103	-4.647	21.366	1.00	12.23
ATCM	6715	C	ALA	996	-9.917	-4.694	20.669	1.00	11.82
ATCM	6716	O	ALA	996	-9.402	-5.031	19.131	1.00	11.66
ATCM	6717	N	PHE	997	-9.932	-3.141	19.611	1.00	11.65
ATCM	6718	CA	PHE	997	-9.325	-2.608	19.337	1.00	13.01
ATCM	6719	CB	PHE	997	-8.423	-1.308	19.015	1.00	12.42
ATCM	6720	CD	PHE	997	-10.812	-0.741	19.111	1.00	13.61
ATCM	6721	CE1	PHE	997	-11.221	-1.528	18.611	1.00	14.72
ATCM	6722	CE2	PHE	997	-11.001	-0.588	19.443	1.00	15.95
ATCM	6723	C	PHE	997	-13.269	-0.993	19.865	1.00	16.49
ATCM	6724	CH	PHE	997	-12.279	1.140	19.499	1.00	13.96
ATCM	6725	CG	PHE	997	-13.379	0.344	19.111	1.00	17.62
ATCM	6726	C	PHE	997	-7.846	-3.117	18.960	1.00	13.57
ATCM	6727	D	PHE	997	-7.164	-3.961	18.347	1.00	13.74

ATCM	6728	N	GLU	998	-7.128	-2.779	19.341	1.00	13.15
ATCM	6729	CA	GLU	998	-5.701	-3.054	19.430	1.00	15.16
ATCM	6730	CB	GLU	998	-5.122	-2.380	20.674	1.00	17.72
ATCM	6731	CG	GLU	998	-3.669	-2.700	20.997	1.00	24.51
ATCM	6732	CD	GLU	998	-2.108	-1.972	20.001	1.00	28.59
ATCM	6733	CE1	GLU	998	-3.168	-1.301	19.068	1.00	30.41
ATCM	6734	CE2	GLU	998	-1.486	-2.077	20.264	1.00	31.76
ATCM	6735	C	GLU	998	-5.788	-4.064	19.461	1.00	12.56
ATCM	6736	O	GLU	998	-4.123	-5.039	18.731	1.00	10.73
ATCM	6737	N	ASN	999	-6.143	-5.303	20.301	1.00	12.22
ATCM	6738	CA	ASN	999	-5.732	-6.729	20.333	1.00	12.09
ATCM	6739	CB	ASN	999	-6.129	-7.240	21.644	1.00	11.39
ATCM	6740	CG	ASN	999	-5.719	-6.735	22.312	1.00	14.10
ATCM	6741	OD1	ASN	999	-4.603	-6.514	22.369	1.00	13.95
ATCM	6742	OD2	ASN	999	-6.455	-6.520	24.010	1.00	13.68
ATCM	6743	C	ASN	999	-6.134	-7.523	19.182	1.00	12.22
ATCM	6744	O	ASN	999	-5.767	-8.594	18.755	1.00	10.24
ATCM	6745	N	ALA	1000	-7.411	-7.101	18.583	1.00	11.44
ATCM	6746	CA	ALA	1000	-7.111	-7.777	17.769	1.00	12.27
ATCM	6747	CB	ALA	1000	-9.180	-7.201	16.998	1.00	11.29
ATCM	6748	C	ALA	1000	-6.194	-7.171	16.775	1.00	12.81
ATCM	6749	O	ALA	1000	-6.117	-8.138	15.483	1.00	11.51
ATCM	6750	N	ALA	1001	-6.125	-6.371	16.234	1.00	12.62
ATCM	6751	CA	ALA	1001	-5.740	-6.334	15.713	1.00	12.96
ATCM	6752	CB	ALA	1001	-4.741	-4.615	15.785	1.00	11.63
ATCM	6753	C	ALA	1001	-4.107	-6.378	15.210	1.00	11.52
ATCM	6754	O	ALA	1001	-3.145	-7.477	14.234	1.00	11.98
ATCM	6755	N	THR	1002	-3.881	-7.165	16.512	1.00	10.66
ATCM	6756	CA	THR	1002	-2.815	-8.007	16.834	1.00	11.02
ATCM	6757	CB	THR	1002	-2.228	-6.117	18.319	1.00	11.27
ATCM	6758	CG1	THR	1002	-1.880	-6.813	18.341	1.00	12.88
ATCM	6759	CG2	THR	1002	-1.136	-9.040	18.184	1.00	11.56
ATCM	6760	C	THR	1002	-2.739	-9.411	16.746	1.00	10.94
ATCM	6761	O	THR	1002	-1.797	-8.952	15.723	1.00	11.00
ATCM	6762	N	VAL	1003	-3.861	-10.005	16.783	1.00	9.24
ATCM	6763	CA	VAL	1003	-4.194	-11.072	16.712	1.00	9.83
ATCM	6764	CB	VAL	1003	-5.142	-11.091	16.497	1.00	11.74
ATCM	6765	CG1	VAL	1003	-6.080	-11.111	16.715	1.00	10.79
ATCM	6766	CG2	VAL	1003	-3.131	-13.484	16.775	1.00	19.29
ATCM	6767	C	VAL	1003	-4.374	-11.466	14.133	1.00	10.01
ATCM	6768	O	VAL	1003	-3.969	-11.462	13.065	1.00	7.78
ATCM	6769	N	MET	1004	-4.167	-10.123	14.013	1.00	8.67
ATCM	6770	CA	MET	1004	-5.205	-10.368	12.710	1.00	11.32
ATCM	6771	CB	MET	1004	-6.197	-9.174	12.113	1.00	10.14
ATCM	6772	CG	MET	1004	-7.523	-8.140	12.118	1.00	16.34
ATCM	6773	SD	MET	1004	-8.546	-13.464	11.114	1.00	14.40
ATCM	6774	CE	MET	1004	-8.643	-8.772	10.742	1.00	17.67
ATCM	6775	C	MET	1004	-1.878	-11.111	11.115	1.00	10.89
ATCM	6776	O	MET	1004	-1.665	-11.460	10.707	1.00	13.67
ATCM	6777	N	ARG	1005	-2.988	-9.345	12.111	1.00	11.14
ATCM	6778	CA	ARG	1005	-1.708	-9.184	11.119	1.00	11.02
ATCM	6779	CB	ARG	1005	-0.862	-8.066	12.134	1.00	12.00
ATCM	6780	CG	ARG	1005	-1.490	-8.689	12.114	1.00	16.37
ATCM	6781	CD	ARG	1005	-0.472	-5.684	12.156	1.00	15.62
ATCM	6782	NE	ARG	1005	-1.134	-4.292	12.658	1.00	17.19
ATCM	6783	CE	ARG	1005	-1.441	-3.811	13.144	1.00	16.30
ATCM	6784	NHE	ARG	1005	-1.248	-4.501	14.134	1.00	16.09
ATCM	6785	NHE	ARG	1005	-2.110	-2.646	13.118	1.00	17.74
ATCM	6786	C	ARG	1005	-0.916	-10.491	11.159	1.00	11.70
ATCM	6787	O	ARG	1005	-0.139	-10.787	10.150	1.00	11.26
ATCM	6788	N	ALA	1006	-1.142	-11.266	11.116	1.00	11.42
ATCM	6789	CA	ALA	1006	-1.475	-12.546	11.118	1.00	11.63
ATCM	6790	CB	ALA	1006	-1.066	-11.946	14.103	1.00	12.25
ATCM	6791	C	ALA	1006	-1.695	-13.639	11.163	1.00	14.06
ATCM	6792	O	ALA	1006	-1.133	-14.703	11.164	1.00	13.17
ATCM	6793	N	GLY	1007	-1.068	-13.399	11.160	1.00	11.67
ATCM	6794	CA	GLY	1007	-1.558	-14.364	10.156	1.00	13.36
ATCM	6795	C	GLY	1007	-1.043	-14.761	10.158	1.00	11.83
ATCM	6796	O	GLY	1007	-1.546	-15.406	9.474	1.00	11.69
ATCM	6797	N	ALA	1008	-1.759	-14.183	11.154	1.00	16.76
ATCM	6798	CA	ALA	1008	-1.177	-14.430	11.184	1.00	10.68
ATCM	6799	CB	ALA	1008	-1.641	-14.059	12.194	1.00	12.65
ATCM	6800	C	ALA	1008	-1.010	-13.665	10.453	1.00	13.14
ATCM	6801	O	ALA	1008	-0.591	-12.634	9.951	1.00	14.06
ATCM	6802	N	ASN	1009	-6.193	-14.182	19.151	1.00	12.15
ATCM	6803	CA	ASN	1009	-5.113	-13.187	17.186	1.00	11.79
ATCM	6804	CB	ASN	1009	-5.113	-14.182	17.186	1.00	13.79

ATCM	6-05	CG	ASN	1009	-8.543	-15.225	7.376	1.00	13.44
ATCM	6-06	ODI	ASN	1009	-7.829	-14.559	6.664	1.00	15.49
ATCM	6-07	NDZ	ASN	1009	-8.547	-16.550	7.487	1.00	10.54
ATCM	6-08	C	ASN	1009	-10.587	-13.057	9.984	1.00	11.95
ATCM	6-09	O	ASN	1009	-11.119	-17.276	8.429	1.00	11.76
ATCM	6-10	N	MET	1010	-10.493	-13.536	11.177	1.00	11.61
ATCM	6-11	CA	MET	1010	-11.060	-13.165	11.956	1.00	12.67
ATCM	6-12	CB	MET	1010	-12.834	-14.052	11.913	1.00	10.94
ATCM	6-13	CG	MET	1010	-14.101	-13.892	12.207	1.00	16.46
ATCM	6-14	SD	MET	1010	-15.435	-14.953	11.613	1.00	18.40
ATCM	6-15	CE	MET	1010	-16.734	-13.742	10.618	1.00	17.91
ATCM	6-16	C	MET	1010	-11.657	-13.364	13.471	1.00	12.79
ATCM	6-17	O	MET	1010	-10.541	-14.397	13.741	1.00	10.90
ATCM	6-18	N	VAL	1011	-12.005	-12.871	14.376	1.00	11.82
ATCM	6-19	CA	VAL	1011	-11.547	-12.664	14.701	1.00	12.46
ATCM	6-20	CB	VAL	1011	-11.637	-11.490	16.346	1.00	14.64
ATCM	6-21	CG1	VAL	1011	-11.707	-11.331	15.759	1.00	21.81
ATCM	6-22	CG2	VAL	1011	-9.450	-10.551	15.668	1.00	14.58
ATCM	6-23	C	VAL	1011	-13.064	-13.121	16.387	1.00	11.69
ATCM	6-24	O	VAL	1011	-14.105	-12.563	16.828	1.00	11.44
ATCM	6-25	N	YYS	1012	-12.534	-13.940	17.426	1.00	11.21
ATCM	6-26	CA	YYS	1012	-14.008	-14.399	18.187	1.00	17.36
ATCM	6-27	CB	YYS	1012	-14.130	-15.423	13.233	1.00	13.52
ATCM	6-28	CG	YYS	1012	-15.117	-16.422	14.123	1.00	14.14
ATCM	6-29	CD	YYS	1012	-15.715	-17.857	14.797	1.00	15.19
ATCM	6-30	CE	YYS	1012	-14.907	-18.869	19.113	1.00	11.81
ATCM	6-31	NZ	YYS	1012	-14.638	-18.899	20.327	1.00	14.94
ATCM	6-32	C	YYS	1012	-14.700	-13.810	13.380	1.00	11.76
ATCM	6-33	N	YYS	1012	-13.165	-13.831	20.141	1.00	13.42
ATCM	6-34	N	LEF	1013	-15.186	-13.180	20.113	1.00	13.31
ATCM	6-35	CA	LEF	1013	-15.082	-12.892	21.127	1.00	13.77
ATCM	6-36	CB	LEF	1013	-15.115	-11.349	21.278	1.00	11.84
ATCM	6-37	CG	LEF	1013	-13.809	-10.825	20.833	1.00	13.46
ATCM	6-38	CG1	LEF	1013	-16.419	-10.890	20.117	1.00	14.17
ATCM	6-39	CG2	LEF	1013	-16.805	-9.181	20.196	1.00	16.19
ATCM	6-40	C	LEF	1013	-16.140	-13.311	22.091	1.00	14.89
ATCM	6-41	O	LEF	1013	-17.538	-13.625	21.414	1.00	14.92
ATCM	6-42	N	GLU	1014	-16.173	-13.304	23.383	1.00	14.84
ATCM	6-43	CA	GLU	1014	-17.981	-13.314	24.189	1.00	15.49
ATCM	6-44	CB	GLU	1014	-17.709	-14.890	25.304	1.00	14.94
ATCM	6-45	CG	GLU	1014	-16.618	-15.243	24.884	1.00	18.47
ATCM	6-46	CD	GLU	1014	-19.135	-16.757	26.052	1.00	18.83
ATCM	6-47	OE1	GLU	1014	-16.166	-16.532	25.215	1.00	20.32
ATCM	6-48	OE2	GLU	1014	-14.930	-17.429	25.811	1.00	20.34
ATCM	6-49	C	GLU	1014	-16.441	-12.722	24.813	1.00	17.21
ATCM	6-50	O	GLU	1014	-17.928	-11.775	25.419	1.00	18.79
ATCM	6-51	N	SLY	1015	-19.765	-12.842	24.764	1.00	19.87
ATCM	6-52	CA	SLY	1015	-20.827	-11.564	25.171	1.00	20.15
ATCM	6-53	C	SLY	1015	-21.324	-11.531	24.445	1.00	22.80
ATCM	6-54	O	SLY	1015	-21.869	-11.243	23.214	1.00	22.51
ATCM	6-55	N	SLY	1016	-23.803	-10.678	25.064	1.00	13.73
ATCM	6-56	CA	SLY	1016	-24.319	-10.113	24.345	1.00	24.26
ATCM	6-57	C	SLY	1016	-23.139	-9.948	24.952	1.00	14.14
ATCM	6-58	O	SLY	1016	-23.323	-8.407	23.443	1.00	17.89
ATCM	6-59	N	GLJ	1017	-25.829	-8.512	24.486	1.00	14.54
ATCM	6-60	CA	GLJ	1017	-25.885	-7.118	24.173	1.00	15.81
ATCM	6-61	CB	GLJ	1017	-26.868	-6.733	25.110	1.00	16.19
ATCM	6-62	CG	GLJ	1017	-24.115	-6.871	24.183	1.00	17.63
ATCM	6-63	CD	GLJ	1017	-23.811	-5.691	23.844	1.00	18.61
ATCM	6-64	OE1	GLJ	1017	-23.861	-5.504	22.180	1.00	18.67
ATCM	6-65	OE2	GLJ	1017	-23.753	-4.943	24.812	1.00	14.46
ATCM	6-66	C	GLJ	1017	-24.143	-4.111	24.389	1.00	21.37
ATCM	6-67	O	GLJ	1017	-24.131	-5.328	23.883	1.00	21.26
ATCM	6-68	N	TBP	1018	-23.597	-4.141	25.117	1.00	21.77
ATCM	6-69	CA	TBP	1018	-23.891	-5.295	25.069	1.00	20.32
ATCM	6-70	CB	TBP	1018	-23.173	-5.621	27.119	1.00	20.17
ATCM	6-71	CG	TBP	1018	-21.168	-6.870	27.112	1.00	18.75
ATCM	6-72	CD	TBP	1018	-19.535	-6.807	27.006	1.00	18.11
ATCM	6-73	OE1	TBP	1018	-19.405	-8.151	27.112	1.00	18.36
ATCM	6-74	OE2	TBP	1018	-16.872	-8.790	27.100	1.00	16.22
ATCM	6-75	C	TBP	1018	-21.640	-6.174	27.113	1.00	20.49
ATCM	6-76	NE1	TBP	1018	-20.527	-6.903	27.110	1.00	20.28
ATCM	6-77	OE2	TBP	1018	-18.040	-6.506	27.142	1.00	18.14
ATCM	6-78	CZ1	TBP	1018	-17.523	-6.146	27.064	1.00	17.33
ATCM	6-79	CZ2	TBP	1018	-17.129	-7.495	27.430	1.00	16.17
ATCM	6-80	C	TBP	1018	-14.690	-7.171	24.899	1.00	18.80
ATCM	6-81	N	TBP	1018	-13.743	-6.113	24.901	1.00	20.21

ATOM	6882	N	LEU	1019	-21.612	-6.143	23.992	1.00	17.89
ATOM	6883	CA	LEU	1019	-20.591	-6.140	22.942	1.00	18.19
ATOM	6884	CB	LEU	1019	-20.134	-7.581	22.671	1.00	18.15
ATOM	6885	CG	LEU	1019	-19.217	-8.224	23.742	1.00	18.92
ATOM	6886	CD1	LEU	1019	-18.900	-9.687	21.341	1.00	18.85
ATOM	6887	CD2	LEU	1019	-17.904	-7.481	23.846	1.00	15.93
ATOM	6888	C	LEU	1019	-21.034	-5.584	21.613	1.00	18.71
ATOM	6889	O	LEU	1019	-20.200	-5.385	20.797	1.00	18.84
ATOM	6890	N	VAL	1020	-22.301	-5.190	21.496	1.00	14.77
ATOM	6891	CA	VAL	1020	-22.801	-4.642	20.272	1.00	16.19
ATOM	6892	CB	VAL	1020	-24.281	-4.115	20.349	1.00	20.01
ATOM	6893	CG1	VAL	1020	-24.714	-3.784	19.347	1.00	18.49
ATOM	6894	CG2	VAL	1020	-25.214	-5.361	20.929	1.00	14.81
ATOM	6895	C	VAL	1020	-21.987	-3.478	19.708	1.00	20.01
ATOM	6896	O	VAL	1020	-21.588	-3.888	18.540	1.00	21.16
ATOM	6897	N	GLU	1021	-21.677	-2.486	20.539	1.00	20.63
ATOM	6898	CA	GLU	1021	-20.888	-1.851	20.197	1.00	21.71
ATOM	6899	CB	GLU	1021	-20.744	-0.755	21.254	1.00	24.19
ATOM	6900	CG	GLU	1021	-19.788	0.361	20.952	1.00	31.81
ATOM	6901	CD	GLU	1021	-19.774	1.887	21.944	1.00	38.88
ATOM	6902	OE1	GLU	1021	-19.601	1.801	23.143	1.00	38.88
ATOM	6903	OE2	GLU	1021	-20.001	3.176	21.006	1.00	38.77
ATOM	6904	C	GLU	1021	-19.521	-1.702	13.606	1.00	18.84
ATOM	6905	O	GLU	1021	-19.007	-1.127	13.555	1.00	18.76
ATOM	6906	N	THR	1022	-18.881	-2.664	20.775	1.00	14.89
ATOM	6907	CA	THR	1022	-17.559	-2.107	20.149	1.00	17.89
ATOM	6908	CB	THR	1022	-17.001	-4.382	21.193	1.00	14.81
ATOM	6909	CG1	THR	1022	-16.885	-3.823	22.129	1.00	14.81
ATOM	6910	CG2	THR	1022	-15.683	-4.386	20.721	1.00	14.81
ATOM	6911	C	THR	1022	-17.505	-3.881	13.684	1.00	14.81
ATOM	6912	O	THR	1022	-16.707	-3.880	17.698	1.00	14.81
ATOM	6913	N	VAL	1023	-14.588	-4.870	13.478	1.00	14.81
ATOM	6914	CA	VAL	1023	-14.742	-5.415	17.132	1.00	16.84
ATOM	6915	CB	VAL	1023	-13.913	-6.812	17.817	1.00	18.85
ATOM	6916	CG1	VAL	1023	-21.170	-5.883	15.837	1.00	18.85
ATOM	6917	CG2	VAL	1023	-17.670	-5.884	18.833	1.00	18.85
ATOM	6918	C	VAL	1023	-13.872	-4.884	16.842	1.00	18.85
ATOM	6919	O	VAL	1023	-13.886	-4.886	14.878	1.00	18.85
ATOM	6920	N	GLN	1024	-13.823	-5.888	16.841	1.00	18.84
ATOM	6921	CA	GLN	1024	-21.175	-5.880	15.169	1.00	20.82
ATOM	6922	CB	GLN	1024	-21.151	-1.888	15.831	1.00	21.83
ATOM	6923	CG	GLN	1024	-21.484	-1.888	16.857	1.00	28.82
ATOM	6924	CD	GLN	1024	-21.517	-1.889	16.479	1.00	31.83
ATOM	6925	OE1	GLN	1024	-21.237	-0.885	17.849	1.00	31.83
ATOM	6926	NE2	GLN	1024	-24.781	-1.889	15.871	1.00	21.83
ATOM	6927	C	GLN	1024	-13.841	-1.880	14.840	1.00	18.85
ATOM	6928	O	GLN	1024	-13.519	-1.881	13.814	1.00	18.85
ATOM	6929	N	MET	1025	-14.104	-1.889	15.817	1.00	16.81
ATOM	6930	CA	MET	1025	-14.809	-0.888	15.445	1.00	16.81
ATOM	6931	CB	MET	1025	-14.388	0.185	16.716	1.00	17.83
ATOM	6932	CG	MET	1025	-17.382	1.124	17.143	1.00	18.83
ATOM	6933	SD	MET	1025	-14.834	1.880	18.708	1.00	18.83
ATOM	6934	CE	MET	1025	-15.842	2.846	17.869	1.00	18.86
ATOM	6935	C	MET	1025	-14.861	-1.883	14.871	1.00	16.89
ATOM	6936	O	MET	1025	-14.886	-1.880	13.873	1.00	16.89
ATOM	6937	N	LEU	1026	-14.870	-2.819	15.874	1.00	18.84
ATOM	6938	CA	LEU	1026	-14.882	-3.814	14.882	1.00	14.87
ATOM	6939	CB	LEU	1026	-14.880	-4.870	15.883	1.00	18.89
ATOM	6940	CG	LEU	1026	-13.841	-4.882	16.882	1.00	12.83
ATOM	6941	CD1	LEU	1026	-14.880	-6.847	17.884	1.00	11.83
ATOM	6942	CD2	LEU	1026	-10.884	-4.880	18.843	1.00	18.83
ATOM	6943	C	LEU	1026	-11.881	-3.821	13.883	1.00	17.82
ATOM	6944	N	LEU	1026	-13.880	-3.889	12.888	1.00	17.82
ATOM	6945	N	THR	1027	-16.883	-4.885	13.847	1.00	14.88
ATOM	6946	CA	THR	1027	-16.887	-4.884	11.844	1.00	14.83
ATOM	6947	CB	THR	1027	-17.883	-4.880	11.869	1.00	14.86
ATOM	6948	CG1	THR	1027	-13.881	-5.886	12.150	1.00	15.81
ATOM	6949	CG2	THR	1027	-13.138	-4.884	9.935	1.00	30.86
ATOM	6950	C	THR	1027	-15.823	-3.877	10.645	1.00	21.84
ATOM	6951	O	THR	1027	-15.851	-3.878	8.630	1.00	21.82
ATOM	6952	N	GLU	1028	-16.885	-1.887	11.885	1.00	21.83
ATOM	6953	CA	GLU	1028	-15.845	-0.887	10.181	1.00	21.82
ATOM	6954	CB	GLU	1028	-16.878	0.466	10.643	1.00	20.84
ATOM	6955	CG	GLU	1028	-17.880	0.487	12.105	1.00	20.82
ATOM	6956	CD	GLU	1028	-17.837	1.740	12.511	1.00	25.87
ATOM	6957	C	GLU	1028	-14.884	2.887	11.884	1.00	24.88
ATOM	6958	OE1	GLU	1028	-17.882	2.467	11.498	1.00	24.11

ATOM	6959	C	GLU	1028	-14.433	-0.597	10.173	1.00	24.26
ATOM	6960	O	GLU	1028	-13.895	0.084	9.29	1.00	24.65
ATOM	6961	N	ARG	1029	-13.740	-1.196	11.13	1.00	21.79
ATOM	6962	CA	ARG	1029	-13.195	-1.075	11.173	1.00	19.58
ATOM	6963	CB	ARG	1029	-11.830	-0.831	11.61	1.00	16.96
ATOM	6964	CG	ARG	1029	-13.142	0.557	11.03	1.00	20.16
ATOM	6965	CD	ARG	1029	-13.178	0.73	14.37	1.00	16.37
ATOM	6966	NE	ARG	1029	-12.643	1.075	14.344	1.00	16.38
ATOM	6967	CZ	ARG	1029	-13.831	1.624	14.74	1.00	15.81
ATOM	6968	NH1	ARG	1029	-14.700	1.745	14.19	1.00	15.80
ATOM	6969	NH2	ARG	1029	-14.302	3.762	15.104	1.00	17.73
ATOM	6970	C	ARG	1029	-11.813	-0.230	10.548	1.00	18.86
ATOM	6971	O	ARG	1029	-10.179	-0.623	10.883	1.00	18.45
ATOM	6972	N	ALA	1030	-13.811	-0.333	9.63	1.00	18.34
ATOM	6973	CA	ALA	1030	-11.849	-0.081	8.96	1.00	16.44
ATOM	6974	CB	ALA	1030	-12.122	-0.702	8.18	1.00	17.45
ATOM	6975	C	ALA	1030	-11.833	-0.404	8.59	1.00	15.43
ATOM	6976	O	ALA	1030	-11.884	-0.292	8.094	1.00	15.15
ATOM	6977	N	VAL	1031	-13.805	-0.544	10.066	1.00	14.41
ATOM	6978	CA	VAL	1031	-13.135	-0.733	11.52	1.00	14.09
ATOM	6979	CB	VAL	1031	-13.141	-0.513	11.09	1.00	15.85
ATOM	6980	CG1	VAL	1031	-12.700	-0.811	11.76	1.00	15.39
ATOM	6981	CG2	VAL	1031	-10.841	-0.893	11.98	1.00	16.62
ATOM	6982	C	VAL	1031	-12.713	-0.843	11.58	1.00	14.09
ATOM	6983	O	VAL	1031	-13.499	-0.274	11.37	1.00	14.39
ATOM	6984	N	PRO	1032	-13.881	-0.326	11.941	1.00	13.45
ATOM	6985	CD	PRO	1032	-11.845	-0.321	9.82	1.00	14.69
ATOM	6986	CA	PRO	1032	-14.866	-0.531	11.093	1.00	18.86
ATOM	6987	CE	PRO	1032	-14.835	-1.534	11.37	1.00	17.86
ATOM	6988	CG	PRO	1032	-13.113	-1.022	10.09	1.00	18.86
ATOM	6989	C	PRO	1032	-14.872	-1.187	11.337	1.00	13.75
ATOM	6990	O	PRO	1032	-13.810	-1.572	11.90	1.00	14.39
ATOM	6991	N	VAL	1033	-13.877	-1.298	10.87	1.00	14.61
ATOM	6992	CA	VAL	1033	-13.865	-10.846	11.013	1.00	13.90
ATOM	6993	CB	VAL	1033	-13.871	-0.876	11.11	1.00	13.98
ATOM	6994	CG1	VAL	1033	-13.112	-1.143	11.334	1.00	13.93
ATOM	6995	CG2	VAL	1033	-13.868	-0.966	11.134	1.00	13.31
ATOM	6996	C	VAL	1033	-13.175	-1.147	14.129	1.00	14.30
ATOM	6997	O	VAL	1033	-13.819	-1.078	11.31	1.00	13.35
ATOM	6998	N	TYR	1034	-13.888	-1.040	10.81	1.00	13.43
ATOM	6999	CA	TYR	1034	-13.877	-14.132	13.82	1.00	14.91
ATOM	7000	CB	TYR	1034	-13.839	-15.504	13.87	1.00	13.36
ATOM	7001	SG	TYR	1034	-13.860	-17.005	13.83	1.00	13.33
ATOM	7002	C	TYR	1034	-13.837	-14.197	11.861	1.00	13.22
ATOM	7003	O	TYR	1034	-17.051	-13.898	13.86	1.00	13.90
ATOM	7004	N	GLY	1035	-13.870	-14.175	11.85	1.00	13.18
ATOM	7005	CA	GLY	1035	-13.810	-14.071	11.87	1.00	13.44
ATOM	7006	C	GLY	1035	-13.826	-11.897	11.897	1.00	13.44
ATOM	7007	O	GLY	1035	-13.891	-11.422	11.894	1.00	16.36
ATOM	7008	N	HIS	1036	-23.107	-13.872	21.196	1.00	15.37
ATOM	7009	CA	HIS	1036	-23.127	-11.860	21.08	1.00	15.38
ATOM	7010	CB	HIS	1036	-13.832	-10.844	21.06	1.00	16.13
ATOM	7011	CG	HIS	1036	-13.835	-11.021	21.236	1.00	17.33
ATOM	7012	CD	HIS	1036	-13.837	-11.943	21.175	1.00	13.91
ATOM	7013	ND1	HIS	1036	-13.865	-11.859	21.056	1.00	18.18
ATOM	7014	CE1	HIS	1036	-13.845	-11.829	21.111	1.00	20.36
ATOM	7015	NE2	HIS	1036	-13.822	-11.953	21.134	1.00	13.10
ATOM	7016	C	HIS	1036	-23.191	-11.897	21.23	1.00	15.56
ATOM	7017	O	HIS	1036	-13.805	-11.816	21.15	1.00	14.91
ATOM	7018	N	LEU	1037	-23.072	-11.859	21.23	1.00	14.85
ATOM	7019	CA	LEU	1037	-23.079	-11.075	23.234	1.00	19.01
ATOM	7020	CB	LEU	1037	-23.134	-11.851	22.63	1.00	19.62
ATOM	7021	CG	LEU	1037	-23.134	-11.841	22.63	1.00	20.40
ATOM	7022	CD	LEU	1037	-23.081	-11.870	21.53	1.00	21.01
ATOM	7023	C	LEU	1037	-23.184	-11.857	23.14	1.00	22.34
ATOM	7024	O	LEU	1037	-23.133	-11.834	23.18	1.00	16.87
ATOM	7025	C	LEU	1037	-23.070	-11.875	23.13	1.00	20.67
ATOM	7026	N	GLY	1038	-23.967	-13.110	25.048	1.00	22.55
ATOM	7027	CA	GLY	1038	-24.271	-13.837	25.764	1.00	25.64
ATOM	7028	C	GLY	1038	-23.304	-13.81	25.769	1.00	26.71
ATOM	7029	O	GLY	1038	-23.171	-13.944	27.767	1.00	27.66
ATOM	7030	N	LEU	1039	-22.619	-20.951	26.925	1.00	28.14
ATOM	7031	CA	LEU	1039	-21.655	-21.321	27.936	1.00	29.16
ATOM	7032	CB	LEU	1039	-21.535	-22.736	28.173	1.00	31.1
ATOM	7033	CG	LEU	1039	-20.908	-23.253	29.503	1.00	33.47
ATOM	7034	CD	LEU	1039	-21.113	-24.264	29.570	1.00	35.08
ATOM	7035	C	LEU	1039	-21.113	-24.264	29.570	1.00	34.71

ATOM	7036	C	LEU	1039	-20.310	-20.600	27.530	1.00	28.75
ATOM	7037	O	LEU	1039	-19.542	-21.188	26.830	1.00	30.49
ATOM	7038	N	THR	1040	-20.049	-19.490	28.085	1.00	29.32
ATOM	7039	CA	THR	1040	-18.806	-18.677	27.806	1.00	29.10
ATOM	7040	CB	THR	1040	-19.047	-17.147	27.708	1.00	30.10
ATOM	7041	OG1	THR	1040	-19.832	-16.755	26.844	1.00	29.44
ATOM	7042	CG2	THR	1040	-19.638	-16.745	26.445	1.00	32.09
ATOM	7043	C	THR	1040	-17.732	-18.995	28.899	1.00	29.43
ATOM	7044	O	THR	1040	-17.858	-18.435	28.960	1.00	29.10
ATOM	7045	N	PRO	1041	-16.850	-19.928	28.595	1.00	28.41
ATOM	7046	CD	PRO	1041	-16.650	-20.464	27.246	1.00	28.53
ATOM	7047	CA	PRO	1041	-15.737	-20.363	29.318	1.00	27.51
ATOM	7048	CB	PRO	1041	-14.349	-21.246	28.661	1.00	28.87
ATOM	7049	CG	PRO	1041	-15.192	-20.773	29.279	1.00	32.35
ATOM	7050	C	PRO	1041	-14.932	-19.275	29.298	1.00	26.35
ATOM	7051	O	PRO	1041	-14.454	-19.473	31.550	1.00	24.47
ATOM	7052	N	GLN	1042	-14.892	-18.176	29.558	1.00	23.87
ATOM	7053	CA	GLN	1042	-14.041	-17.910	31.188	1.00	23.26
ATOM	7054	CB	GLN	1042	-13.837	-15.855	31.020	1.00	21.94
ATOM	7055	CG	GLN	1042	-13.681	-16.911	32.777	1.00	19.12
ATOM	7056	CD	GLN	1042	-13.640	-14.333	31.118	1.00	22.37
ATOM	7057	NE1	GLN	1042	-13.381	-13.751	31.438	1.00	21.14
ATOM	7058	NE2	GLN	1042	-17.000	-19.201	28.042	1.00	19.11
ATOM	7059	C	ASN	1043	-14.737	-16.555	31.435	1.00	22.14
ATOM	7060	O	ASN	1043	-14.084	-16.334	31.341	1.00	22.85
ATOM	7061	N	ASP	1044	-14.855	-16.759	31.535	1.00	24.43
ATOM	7062	CA	ASP	1044	-14.330	-16.750	31.727	1.00	14.75
ATOM	7063	CB	ASP	1044	-14.131	-15.750	31.326	1.00	16.19
ATOM	7064	CG	ASP	1044	-13.169	-14.511	31.565	1.00	19.55
ATOM	7065	C	ASP	1044	-14.851	-17.493	33.719	1.00	14.32
ATOM	7066	O	ASP	1044	-17.345	-17.439	34.581	1.00	15.37
ATOM	7067	N	VAL	1045	-16.549	-18.314	33.575	1.00	13.32
ATOM	7068	CA	VAL	1045	-16.157	-19.025	34.454	1.00	11.31
ATOM	7069	CB	VAL	1045	-15.154	-20.632	34.345	1.00	13.18
ATOM	7070	CG1	VAL	1045	-13.714	-19.511	34.514	1.00	22.95
ATOM	7071	CG2	VAL	1045	-14.165	-21.555	33.734	1.00	11.94
ATOM	7072	C	VAL	1045	-14.355	-19.336	33.733	1.00	11.48
ATOM	7073	O	VAL	1045	-17.655	-19.952	33.681	1.00	11.34
ATOM	7074	N	ASN	1045	-16.626	-18.337	33.536	1.00	13.15
ATOM	7075	CA	ASN	1045	-14.655	-17.879	33.761	1.00	14.44
ATOM	7076	CB	ASN	1045	-14.346	-16.311	33.491	1.00	13.65
ATOM	7077	CG	ASN	1045	-13.183	-17.545	33.313	1.00	11.46
ATOM	7078	CD1	ASN	1045	-13.856	-18.447	33.666	1.00	11.63
ATOM	7079	ND2	ASN	1045	-13.453	-17.826	33.304	1.00	10.14
ATOM	7080	C	ASN	1045	-17.019	-17.237	34.197	1.00	15.56
ATOM	7081	O	ASN	1045	-13.455	-17.339	33.257	1.00	16.10
ATOM	7082	N	ILE	1046	-13.666	-16.693	33.115	1.00	13.17
ATOM	7083	CA	ILE	1046	-13.962	-15.527	33.342	1.00	13.76
ATOM	7084	CB	ILE	1046	-13.399	-15.116	33.141	1.00	11.25
ATOM	7085	CG1	ILE	1046	-20.322	-14.616	33.556	1.00	13.76
ATOM	7086	CG2	ILE	1046	-13.440	-13.933	33.379	1.00	13.31
ATOM	7087	CD1	ILE	1046	-14.113	-12.376	33.145	1.00	13.63
ATOM	7088	C	ILE	1046	-20.923	-17.337	33.151	1.00	13.36
ATOM	7089	O	ILE	1046	-20.341	-16.371	33.466	1.00	13.38
ATOM	7090	CA	PHE	1047	-20.008	-18.954	33.933	1.00	15.65
ATOM	7091	N	PHE	1047	-20.977	-19.191	33.783	1.00	13.34
ATOM	7092	CB	PHE	1047	-21.127	-19.378	33.430	1.00	14.96
ATOM	7093	CG	PHE	1047	-21.777	-18.346	33.777	1.00	14.16
ATOM	7094	CD1	PHE	1047	-23.413	-18.639	34.213	1.00	15.03
ATOM	7095	CD2	PHE	1047	-20.577	-19.113	33.141	1.00	13.04
ATOM	7096	CE1	PHE	1047	-22.666	-17.177	33.334	1.00	13.51
ATOM	7097	CE2	PHE	1047	-23.331	-18.157	32.597	1.00	13.37
ATOM	7098	CE3	PHE	1047	-21.831	-17.143	32.164	1.00	13.13
ATOM	7099	C	PHE	1047	-23.553	-10.554	37.123	1.00	13.11
ATOM	7100	O	PHE	1047	-23.334	-10.552	37.123	1.00	13.11
ATOM	7101	N	GLY	1048	-13.275	-20.358	38.174	1.00	41.74
ATOM	7102	CA	GLY	1048	-13.763	-21.117	39.153	1.00	41.32
ATOM	7103	C	GLY	1048	-13.683	-22.350	38.561	1.00	43.09
ATOM	7104	O	GLY	1048	-13.993	-23.346	39.220	1.00	42.75
ATOM	7105	N	GLY	1049	-13.162	-23.617	37.366	1.00	43.02
ATOM	7106	CA	GLY	1049	-13.349	-23.603	36.659	1.00	45.01
ATOM	7107	C	GLY	1049	-12.709	-23.739	35.279	1.00	46.19
ATOM	7108	O	GLY	1049	-19.129	-22.753	34.800	1.00	45.08
ATOM	7109	N	TYR	1050	-18.725	-24.919	34.513	1.00	47.77
ATOM	7110	CA	TYR	1050	-19.155	-24.860	33.157	1.00	49.51
ATOM	7111	CB	TYR	1050	-18.512	-25.557	32.227	1.00	49.59
ATOM	7112	CG	TYR	1050	-19.397	-25.161	32.246	1.00	49.46

ATCM	7117	CD1	TYR	1050	-15.965	-14.674	33.152	1.00	49.47
ATCM	7118	CE1	TYR	1050	-14.669	-14.170	34.196	1.00	50.01
ATCM	7119	CD2	TYR	1050	-16.499	-14.166	31.336	1.00	44.76
ATCM	7119	CE2	TYR	1050	-15.107	-14.652	31.411	1.00	49.86
ATCM	7119	CZ	TYR	1050	-14.898	-14.159	31.333	1.00	50.33
ATCM	7119	OH	TYR	1050	-19.019	-14.652	31.336	1.00	50.67
ATCM	7119	C	TYR	1050	-23.035	-14.176	33.136	1.00	50.55
ATCM	7120	O	TYR	1050	-23.077	-23.270	31.836	1.00	50.84
ATCM	7121	N	LYS	1051	-21.047	-14.360	33.411	1.00	51.54
ATCM	7122	CA	LYS	1051	-23.031	-14.318	33.444	1.00	52.63
ATCM	7123	CB	LYS	1051	-23.033	-14.319	34.761	1.00	51.67
ATCM	7124	CG	LYS	1051	-23.063	-14.320	35.060	1.00	52.80
ATCM	7124	CD	LYS	1051	-23.061	-14.361	34.067	1.00	52.82
ATCM	7125	CE	LYS	1051	-23.081	-14.016	34.108	1.00	51.73
ATCM	7127	NZ	LYS	1051	-23.192	-14.319	35.410	1.00	58.17
ATCM	7128	C	LYS	1051	-23.056	-14.894	31.165	1.00	52.42
ATCM	7129	O	LYS	1051	-23.353	-14.850	31.495	1.00	51.97
ATCM	7130	N	VAL	1052	-23.821	-14.516	31.843	1.00	52.32
ATCM	7131	CA	VAL	1052	-23.059	-14.117	31.161	1.00	52.95
ATCM	7132	CB	VAL	1052	-23.059	-14.117	31.161	1.00	51.86
ATCM	7133	CC1	VAL	1052	-23.133	-14.117	31.161	1.00	51.77
ATCM	7134	CG2	VAL	1052	-23.171	-14.117	31.161	1.00	51.56
ATCM	7135	C	VAL	1052	-23.111	-14.117	31.161	1.00	52.86
ATCM	7136	O	VAL	1052	-23.197	-14.117	31.161	1.00	52.72
ATCM	7137	CA	GLN	1053	-23.444	-14.114	32.714	1.00	53.38
ATCM	7138	N	GLN	1053	-23.207	-14.117	31.161	1.00	53.40
ATCM	7139	CB	GLN	1053	-23.329	-14.114	31.161	1.00	53.64
ATCM	7140	CG	GLN	1053	-23.398	-14.114	31.161	1.00	54.11
ATCM	7141	CD	GLN	1053	-23.407	-14.114	31.161	1.00	51.36
ATCM	7142	CE1	GLN	1053	-23.756	-14.114	31.161	1.00	55.31
ATCM	7143	NE2	GLN	1053	-23.697	-14.114	31.161	1.00	53.40
ATCM	7144	C	GLN	1053	-23.411	-14.114	31.161	1.00	53.18
ATCM	7145	O	GLN	1053	-23.567	-14.114	31.161	1.00	52.33
ATCM	7146	N	GLY	1054	-23.261	-14.114	31.161	1.00	51.68
ATCM	7147	CA	GLY	1054	-23.141	-14.114	31.161	1.00	54.61
ATCM	7148	C	GLY	1054	-23.591	-14.114	31.161	1.00	53.31
ATCM	7149	O	GLY	1054	-23.719	-14.114	31.161	1.00	55.28
ATCM	7150	N	ARG	1055	-23.303	-14.114	31.161	1.00	50.97
ATCM	7151	CA	ARG	1055	-23.311	-14.114	31.161	1.00	57.40
ATCM	7152	CB	ARG	1055	-23.674	-14.114	31.161	1.00	55.13
ATCM	7153	CG	ARG	1055	-23.714	-14.114	31.161	1.00	57.02
ATCM	7154	CD	ARG	1055	-23.453	-14.114	31.161	1.00	52.44
ATCM	7155	NE	ARG	1055	-23.566	-14.114	31.161	1.00	51.71
ATCM	7156	C2	ARG	1055	-24.867	-14.114	31.161	1.00	54.04
ATCM	7157	NH1	ARG	1055	-24.943	-14.114	31.161	1.00	54.28
ATCM	7158	NH2	ARG	1055	-23.086	-14.114	31.161	1.00	54.25
ATCM	7159	C	ARG	1055	-23.463	-14.114	31.161	1.00	51.48
ATCM	7160	O	ARG	1055	-23.227	-14.114	31.161	1.00	51.81
ATCM	7161	N	GLY	1056	-24.531	-14.114	31.161	1.00	51.14
ATCM	7162	CA	GLY	1056	-23.618	-14.114	31.161	1.00	56.84
ATCM	7163	C	GLY	1056	-23.177	-14.114	31.161	1.00	56.31
ATCM	7164	O	GLY	1056	-23.678	-14.114	31.161	1.00	55.89
ATCM	7165	N	ASP	1057	-27.224	-14.114	31.161	1.00	56.37
ATCM	7166	CA	ASP	1057	-27.869	-14.114	31.161	1.00	56.25
ATCM	7167	CB	ASP	1057	-23.315	-14.114	31.161	1.00	57.60
ATCM	7168	CG	ASP	1057	-40.138	-14.114	31.161	1.00	54.32
ATCM	7169	CD1	ASP	1057	-40.311	-14.114	31.161	1.00	58.27
ATCM	7170	CD2	ASP	1057	-40.581	-20.114	31.161	1.00	58.42
ATCM	7171	C	ASP	1057	-27.116	-17.114	31.161	1.00	55.73
ATCM	7172	O	ASP	1057	-26.559	-17.114	31.161	1.00	55.55
ATCM	7173	N	GLU	1058	-26.999	-16.114	31.161	1.00	54.61
ATCM	7174	CA	GLU	1058	-26.184	-15.114	31.161	1.00	54.55
ATCM	7175	CB	GLU	1058	-26.117	-15.114	31.161	1.00	54.74
ATCM	7176	CG	GLU	1058	-26.411	-13.114	31.161	1.00	55.54
ATCM	7177	CD	GLU	1058	-26.511	-13.114	31.161	1.00	55.51
ATCM	7178	CE1	GLU	1058	-26.515	-12.114	31.161	1.00	55.62
ATCM	7179	CE2	GLU	1058	-26.443	-13.114	31.161	1.00	55.77
ATCM	7180	C	GLU	1058	-24.906	-15.114	29.446	1.00	52.45
ATCM	7181	O	GLU	1058	-24.507	-14.990	28.515	1.00	52.76
ATCM	7182	N	ALA	1059	-24.005	-14.626	29.807	1.00	52.71
ATCM	7183	CA	ALA	1059	-23.741	-16.820	29.440	1.00	48.44
ATCM	7184	CB	ALA	1059	-23.005	-17.834	30.177	1.00	48.71
ATCM	7185	C	ALA	1059	-22.700	-17.290	27.969	1.00	46.48
ATCM	7186	O	ALA	1059	-21.917	-16.913	27.153	1.00	46.62
ATCM	7187	N	GLY	1060	-22.763	-18.116	27.058	1.00	44.44
ATCM	7188	CA	GLY	1060	-22.941	-18.116	26.950	1.00	44.18
ATCM	7189	C	GLY	1060	-21.116	-17.441	26.911	1.00	41.78

AT-M	7190	C	GLY	1060	-33.539	-17.480	24.245	1.00	41.81
AT-M	7191	N	ASF	1061	-35.008	-18.540	25.667	1.00	40.66
AT-M	7192	CA	ASF	1061	-35.288	-18.401	24.797	1.00	38.57
AT-M	7193	CB	ASF	1061	-36.576	-14.686	25.726	1.00	39.86
AT-M	7194	CG	ASF	1061	-37.766	-15.616	25.318	1.00	39.94
AT-M	7195	CD1	ASF	1061	-38.627	-16.323	24.828	1.00	40.73
AT-M	7196	CD2	ASF	1061	-38.472	-16.634	26.375	1.00	41.27
AT-M	7197	C	ASF	1061	-34.131	-14.402	24.837	1.00	37.38
AT-M	7198	C	ASF	1061	-22.857	-13.719	23.854	1.00	37.88
AT-M	7199	N	GLN	1062	-22.464	-14.332	21.983	1.00	31.98
AT-M	7200	CA	GLN	1062	-22.337	-13.426	26.185	1.00	34.74
AT-M	7201	CB	GLN	1062	-21.807	-13.508	17.586	1.00	35.48
AT-M	7202	CG	GLN	1062	-20.672	-12.553	17.895	1.00	36.35
AT-M	7203	CD	GLN	1062	-21.115	-11.083	27.786	1.00	38.82
AT-M	7204	CD1	GLN	1062	-32.048	-10.652	18.485	1.00	38.85
AT-M	7205	CD2	GLN	1062	-30.439	-10.320	26.933	1.00	38.90
AT-M	7206	C	GLN	1062	-31.225	-13.777	25.175	1.00	33.19
AT-M	7207	C	GLN	1062	-36.671	-12.899	24.521	1.00	31.37
AT-M	7208	N	LEU	1063	-30.904	-13.064	25.087	1.00	32.48
AT-M	7209	CA	LEU	1063	-29.861	-13.321	24.176	1.00	31.76
AT-M	7210	CB	LEU	1063	-29.584	-12.003	24.405	1.00	32.11
AT-M	7211	CG	LEU	1063	-28.963	-12.413	23.714	1.00	33.38
AT-M	7212	CD1	LEU	1063	-28.633	-12.903	23.226	1.00	34.18
AT-M	7213	CD2	LEU	1063	-27.160	-13.701	23.837	1.00	33.79
AT-M	7214	C	LEU	1063	-30.243	-13.787	21.718	1.00	31.39
AT-M	7215	C	LEU	1063	-29.418	-14.334	21.916	1.00	32.48
AT-M	7216	N	LEU	1064	-31.594	-15.634	22.385	1.00	36.16
AT-M	7217	CA	LEU	1064	-31.334	-13.334	21.034	1.00	31.20
AT-M	7218	CB	LEU	1064	-33.141	-13.776	26.839	1.00	37.73
AT-M	7219	CG	LEU	1064	-34.097	-11.718	18.113	1.00	34.13
AT-M	7220	CD1	LEU	1064	-35.286	-16.702	19.481	1.00	35.33
AT-M	7221	CD2	LEU	1064	-34.336	-14.336	19.187	1.00	34.73
AT-M	7222	C	LEU	1064	-31.265	-13.316	20.628	1.00	32.38
AT-M	7223	C	LEU	1064	-21.476	-13.433	19.172	1.00	18.28
AT-M	7224	N	SER	1065	-23.131	-13.898	21.677	1.00	17.84
AT-M	7225	CA	SER	1065	-23.166	-11.571	21.475	1.00	17.16
AT-M	7226	CB	SER	1065	-23.641	-13.831	22.827	1.00	18.11
AT-M	7227	CG	SER	1065	-23.619	-13.433	22.433	1.00	18.17
AT-M	7228	CD	SER	1065	-23.662	-11.156	21.212	1.00	16.13
AT-M	7229	C	SER	1065	-36.333	-10.224	23.357	1.00	16.63
AT-M	7230	N	ASF	1066	-13.741	-11.663	22.035	1.00	13.86
AT-M	7231	CA	ASF	1066	-13.735	-11.340	21.333	1.00	14.38
AT-M	7232	CB	ASF	1066	-22.431	-11.369	22.333	1.00	13.67
AT-M	7233	CG	ASF	1066	-27.730	-11.348	24.338	1.00	18.73
AT-M	7234	CD1	ASF	1066	-27.260	-10.137	24.381	1.00	19.63
AT-M	7235	CD2	ASF	1066	-27.775	-12.677	29.351	1.00	21.26
AT-M	7236	C	ASF	1066	-27.733	-11.781	29.524	1.00	13.37
AT-M	7237	C	ASP	1066	-16.866	-11.033	19.915	1.00	13.44
AT-M	7238	N	ALA	1067	-18.335	-13.945	20.063	1.00	13.41
AT-M	7239	CA	ALA	1067	-17.812	-13.478	18.776	1.00	11.13
AT-M	7240	CB	ALA	1067	-22.459	-14.843	18.547	1.00	11.43
AT-M	7241	CG	ALA	1067	-22.316	-12.516	17.665	1.00	11.46
AT-M	7242	CD	ALA	1067	-22.419	-12.164	16.499	1.00	12.33
AT-M	7243	C	LEU	1068	-22.437	-12.021	17.683	1.00	13.91
AT-M	7244	CA	LEU	1068	-22.461	-11.267	16.668	1.00	13.73
AT-M	7245	CB	LEU	1068	-21.464	-10.912	16.444	1.00	13.13
AT-M	7246	CG	LEU	1068	-21.464	-12.116	16.439	1.00	13.69
AT-M	7247	CD1	LEU	1068	-21.769	-11.836	17.913	1.00	15.32
AT-M	7248	CD2	LEU	1068	-22.393	-12.319	14.953	1.00	14.63
AT-M	7249	C	LEU	1068	-21.223	-9.333	16.784	1.00	19.43
AT-M	7250	C	LEU	1068	-22.926	-9.219	15.791	1.00	19.36
AT-M	7251	N	ALA	1069	-22.323	-8.436	13.918	1.00	19.12
AT-M	7252	CA	ALA	1069	-22.333	-8.116	13.233	1.00	13.53
AT-M	7253	CB	ALA	1069	-22.333	-7.333	13.733	1.00	11.21
AT-M	7254	CG	ALA	1069	-22.333	-9.233	17.733	1.00	18.73
AT-M	7255	CD	ALA	1069	-22.333	-7.233	17.233	1.00	17.73
AT-M	7256	N	LEU	1070	-19.137	-9.333	17.333	1.00	19.43
AT-M	7257	CA	LEU	1070	-24.743	-9.440	17.455	1.00	18.83
AT-M	7258	CB	LEU	1070	-24.331	-10.739	13.005	1.00	18.63
AT-M	7259	CG	LEU	1070	-23.343	-10.721	19.516	1.00	17.63
AT-M	7260	CD1	LEU	1070	-23.351	-12.111	19.965	1.00	17.93
AT-M	7261	CD2	LEU	1070	-23.750	-9.639	19.849	1.00	16.49
AT-M	7262	C	LEU	1070	-24.741	-9.435	15.933	1.00	18.26
AT-M	7263	C	LEU	1070	-23.837	-8.791	15.303	1.00	16.25
AT-M	7264	N	GLU	1071	-25.642	-10.141	15.327	1.00	19.53
AT-M	7265	CA	GLU	1071	-24.739	-10.178	13.872	1.00	19.32
AT-M	7266	CB	GLU	1071	-26.992	-11.142	13.445	1.00	13.73

ATCM	7267	CG	GLU	1071	-27.158	-11.196	11.944	1.00	23.57
ATCM	7268	CD	GLU	1071	-28.293	-12.133	11.587	1.00	25.87
ATCM	7269	OE1	GLU	1071	-29.437	-11.938	12.111	1.00	26.11
ATCM	7270	OE2	GLU	1071	-28.075	-13.063	10.783	1.00	27.62
ATCM	7271	C	GLU	1071	-26.069	-8.775	11.324	1.00	19.77
ATCM	7272	C	GLU	1071	-25.424	-8.339	12.374	1.00	17.58
ATCM	7273	C	ALA	1072	-25.028	-8.671	13.922	1.00	20.66
ATCM	7274	CA	ALA	1072	-27.268	-8.721	13.467	1.00	20.74
ATCM	7275	CB	ALA	1072	-28.549	-8.182	14.345	1.00	21.38
ATCM	7276	C	ALA	1072	-26.126	-8.786	13.630	1.00	22.41
ATCM	7277	C	ALA	1072	-26.324	-4.304	12.898	1.00	23.66
ATCM	7278	C	ALA	1072	-25.319	-6.199	14.548	1.00	22.57
ATCM	7279	CA	ALA	1072	-24.130	-5.295	14.836	1.00	19.70
ATCM	7280	CB	ALA	1072	-23.522	-5.816	16.241	1.00	20.35
ATCM	7281	C	ALA	1072	-23.955	-5.530	13.742	1.00	19.63
ATCM	7282	C	ALA	1072	-22.134	-4.730	13.647	1.00	19.10
ATCM	7283	C	GLY	1074	-23.167	-8.623	13.849	1.00	17.74
ATCM	7284	A	GLY	1074	-22.126	-8.891	11.118	1.00	17.83
ATCM	7285	C	GLY	1074	-21.434	-8.123	11.313	1.00	17.14
ATCM	7286	C	GLY	1074	-21.631	-8.543	11.319	1.00	17.08
ATCM	7287	C	ALA	1075	-21.133	-5.105	11.147	1.00	17.17
ATCM	7288	CA	ALA	1075	-21.037	-12.110	11.388	1.00	17.76
ATCM	7289	CB	ALA	1075	-21.544	-10.494	14.381	1.00	16.30
ATCM	7290	C	ALA	1075	-21.377	-11.160	13.737	1.00	18.43
ATCM	7291	C	ALA	1075	-21.657	-11.337	11.733	1.00	18.49
ATCM	7292	C	GLN	1076	-21.443	-11.790	11.468	1.00	17.65
ATCM	7293	CA	GLN	1076	-21.689	-11.825	16.243	1.00	19.07
ATCM	7294	CB	GLN	1076	-21.137	-11.363	8.183	1.00	20.10
ATCM	7295	CG	GLN	1076	-21.044	-10.861	8.666	1.00	21.35
ATCM	7296	CD	GLN	1076	-21.113	-10.864	8.737	1.00	23.48
ATCM	7297	OE1	GLN	1076	-21.137	-11.110	8.154	1.00	28.47
ATCM	7298	OE2	GLN	1076	-21.347	-9.300	8.164	1.00	19.71
ATCM	7299	C	GLN	1076	-21.778	-14.110	11.694	1.00	18.47
ATCM	7300	C	GLN	1076	-21.044	-13.325	8.731	1.00	21.05
ATCM	7301	C	LEU	1077	-21.137	-14.435	11.837	1.00	19.04
ATCM	7302	CA	LEU	1077	-21.540	-15.804	11.363	1.00	18.01
ATCM	7303	CB	LEU	1077	-21.783	-16.467	11.113	1.00	21.26
ATCM	7304	CG	LEU	1077	-21.831	-17.310	10.266	1.00	22.57
ATCM	7305	CD1	LEU	1077	-21.467	-17.821	10.000	1.00	24.78
ATCM	7306	CD2	LEU	1077	-21.478	-13.477	13.420	1.00	23.44
ATCM	7307	C	LEU	1077	-21.325	-15.799	10.311	1.00	17.60
ATCM	7308	C	LEU	1077	-20.829	-14.316	14.386	1.00	17.74
ATCM	7309	C	LEU	1077	-21.514	-16.895	14.233	1.00	16.01
ATCM	7310	CA	LEU	1078	-21.848	-17.612	13.755	1.00	17.44
ATCM	7311	CB	LEU	1078	-23.371	-16.731	13.964	1.00	18.43
ATCM	7312	CG	LEU	1078	-23.343	-16.847	13.686	1.00	19.34
ATCM	7313	CD1	LEU	1078	-23.357	-15.825	14.368	1.00	19.16
ATCM	7314	CD2	LEU	1078	-23.491	-16.717	14.461	1.00	20.01
ATCM	7315	C	LEU	1078	-21.695	-18.434	16.206	1.00	17.33
ATCM	7316	C	LEU	1078	-21.134	-19.335	15.563	1.00	18.22
ATCM	7317	C	VAL	1079	-21.037	-18.155	17.357	1.00	16.40
ATCM	7318	CA	VAL	1079	-21.836	-19.417	17.349	1.00	15.39
ATCM	7319	CB	VAL	1079	-19.364	-19.372	13.962	1.00	16.02
ATCM	7320	CG1	VAL	1079	-18.771	-21.169	13.519	1.00	15.56
ATCM	7321	CG2	VAL	1079	-18.376	-20.161	17.413	1.00	11.33
ATCM	7322	C	VAL	1079	-21.760	-19.377	13.163	1.00	18.15
ATCM	7323	C	VAL	1079	-21.315	-19.939	13.371	1.00	20.36
ATCM	7324	N	LEU	1080	-21.137	-21.113	19.135	1.00	20.11
ATCM	7325	CA	LEU	1080	-21.420	-21.101	20.336	1.00	20.37
ATCM	7326	CB	LEU	1080	-24.792	-21.775	19.330	1.00	21.39
ATCM	7327	CG	LEU	1080	-20.776	-20.655	19.401	1.00	24.39
ATCM	7328	CD1	LEU	1080	-21.382	-21.237	19.936	1.00	22.65
ATCM	7329	CD2	LEU	1080	-20.310	-19.744	20.637	1.00	13.99
ATCM	7330	C	LEU	1080	-21.876	-21.521	21.025	1.00	14.75
ATCM	7331	C	LEU	1080	-21.613	-23.655	20.126	1.00	18.71
ATCM	7332	C	LEU	1080	-21.337	-21.757	20.726	1.00	13.44
ATCM	7333	CA	GLU	1081	-22.110	-23.433	23.124	1.00	11.53
ATCM	7334	CB	GLU	1081	-21.760	-22.992	22.790	1.00	11.79
ATCM	7335	CG	GLU	1081	-21.121	-23.951	24.772	1.00	11.66
ATCM	7336	CD	GLU	1081	-21.876	-23.657	25.073	1.00	11.66
ATCM	7337	OE1	GLU	1081	-18.213	-22.519	24.712	1.00	14.72
ATCM	7338	OE2	GLU	1081	-17.929	-24.441	25.073	1.00	13.78
ATCM	7339	C	GLU	1081	-23.018	-23.897	24.364	1.00	13.09
ATCM	7340	C	GLU	1081	-23.554	-23.083	25.118	1.00	11.47
ATCM	7341	N	GLY	1082	-23.167	-21.315	24.431	1.00	13.17
ATCM	7342	CA	GLY	1082	-23.060	-21.861	25.503	1.00	13.06
ATCM	7343	CB	GLY	1082	-23.147	-22.117	25.173	1.00	13.17

ATCM	7344	SG	CYS	1082	-21.655	-26.930	26.505	1.00	27.14
ATCM	7345	C	CY	1092	-25.245	-23.148	25.800	1.00	25.48
ATCM	7346	C	CY	1092	-25.449	-24.431	26.795	1.00	25.29
ATCM	7347	N	VAL	1093	-26.243	-25.732	24.915	1.00	26.30
ATCM	7348	CA	VAL	1093	-27.501	-24.784	25.032	1.00	29.17
ATCM	7349	CB	VAL	1093	-27.646	-24.516	24.129	1.00	28.06
ATCM	7350	CG1	VAL	1093	-27.611	-24.590	22.655	1.00	30.28
ATCM	7351	CG2	VAL	1093	-28.893	-24.719	24.450	1.00	32.37
ATCM	7352	C	VAL	1093	-28.553	-24.880	24.508	1.00	29.39
ATCM	7353	C	VAL	1093	-23.756	-26.570	23.559	1.00	23.75
ATCM	7354	N	PRO	1094	-29.554	-27.911	25.173	1.00	30.74
ATCM	7355	CD	PRO	1094	-30.334	-28.021	26.140	1.00	29.84
ATCM	7356	CA	PRO	1094	-30.558	-28.886	24.688	1.00	30.71
ATCM	7357	CB	PRO	1094	-31.080	-28.510	25.471	1.00	30.48
ATCM	7358	CG	PRO	1094	-31.775	-28.453	25.837	1.00	31.75
ATCM	7359	C	PRO	1094	-30.608	-28.865	23.176	1.00	31.10
ATCM	7360	C	PRO	1094	-31.018	-28.784	22.572	1.00	32.04
ATCM	7361	N	VAL	1095	-30.983	-28.649	22.574	1.00	32.74
ATCM	7362	CA	VAL	1095	-31.137	-28.185	21.184	1.00	32.80
ATCM	7363	CB	VAL	1095	-31.481	-28.648	20.743	1.00	33.17
ATCM	7364	CG1	VAL	1095	-31.514	-28.783	19.279	1.00	33.72
ATCM	7365	CG2	VAL	1095	-32.180	-28.173	21.374	1.00	34.67
ATCM	7366	C	VAL	1095	-32.191	-28.175	20.612	1.00	34.70
ATCM	7367	C	VAL	1095	-32.324	-28.755	19.579	1.00	33.11
ATCM	7368	N	GLU	1096	-33.825	-27.176	21.477	1.00	36.11
ATCM	7369	CA	GLU	1096	-34.330	-26.831	21.111	1.00	38.16
ATCM	7370	CB	GLU	1096	-35.473	-26.364	22.347	1.00	40.09
ATCM	7371	CG	GLU	1096	-35.128	-26.875	22.145	1.00	42.70
ATCM	7372	CD	GLU	1096	-35.426	-26.784	21.471	1.00	44.40
ATCM	7373	CE1	GLU	1096	-36.420	-26.940	21.573	1.00	45.11
ATCM	7374	CE2	GLU	1096	-36.736	-26.664	22.614	1.00	45.73
ATCM	7375	C	GLU	1096	-36.797	-26.675	20.812	1.00	47.18
ATCM	7376	C	GLU	1096	-36.441	-26.436	19.738	1.00	47.02
ATCM	7377	N	LEU	1097	-37.370	-24.716	21.776	1.00	47.33
ATCM	7378	CA	LEU	1097	-37.828	-22.941	21.572	1.00	46.84
ATCM	7379	CB	LEU	1097	-37.191	-22.195	20.813	1.00	48.74
ATCM	7380	CG	LEU	1097	-37.380	-21.885	21.374	1.00	49.32
ATCM	7381	CD1	LEU	1097	-37.351	-21.074	24.800	1.00	40.57
ATCM	7382	CD2	LEU	1097	-37.377	-19.784	22.549	1.00	49.82
ATCM	7383	C	LEU	1097	-37.102	-22.717	20.845	1.00	46.18
ATCM	7384	C	LEU	1097	-37.141	-21.770	19.570	1.00	45.45
ATCM	7385	N	ALA	1098	-37.111	-22.078	20.173	1.00	45.37
ATCM	7386	CA	ALA	1098	-37.194	-21.577	19.078	1.00	44.44
ATCM	7387	CB	ALA	1098	-37.194	-21.689	19.066	1.00	42.28
ATCM	7388	CG	ALA	1098	-37.967	-21.770	17.712	1.00	45.97
ATCM	7389	C	ALA	1098	-37.530	-21.089	18.765	1.00	45.13
ATCM	7390	N	LYS	1099	-37.112	-21.672	17.675	1.00	46.10
ATCM	7391	CA	LYS	1099	-37.981	-20.462	18.473	1.00	47.34
ATCM	7392	CB	LYS	1099	-37.177	-21.353	18.712	1.00	40.12
ATCM	7393	CG	LYS	1099	-37.941	-20.752	17.014	1.00	42.71
ATCM	7394	CD	LYS	1099	-37.966	-20.619	17.354	1.00	46.64
ATCM	7395	CE	LYS	1099	-37.773	-20.810	17.818	1.00	46.35
ATCM	7396	HZ	LYS	1099	-37.751	-20.783	13.370	1.00	47.78
ATCM	7397	C	LYS	1099	-37.485	-21.114	16.111	1.00	45.60
ATCM	7398	C	LYS	1099	-37.370	-21.156	15.079	1.00	45.12
ATCM	7399	N	ARG	1100	-37.177	-21.784	17.141	1.00	45.99
ATCM	7400	CA	ARG	1090	-37.481	-21.739	16.947	1.00	46.46
ATCM	7401	CB	ARG	1090	-37.383	-20.711	18.137	1.00	48.53
ATCM	7402	CG	ARG	1090	-37.470	-21.782	18.862	1.00	42.68
ATCM	7403	CD	ARG	1090	-37.170	-20.752	19.812	1.00	45.65
ATCM	7404	CE	ARG	1090	-36.861	-21.805	20.834	1.00	49.18
ATCM	7405	C	ARG	1090	-36.841	-21.735	21.749	1.00	40.27
ATCM	7406	CH1	ARG	1090	-37.177	-21.809	21.578	1.00	47.07
ATCM	7407	CH2	ARG	1090	-36.273	-21.184	20.601	1.00	47.07
ATCM	7408	C	ARG	1090	-37.377	-21.778	19.878	1.00	44.78
ATCM	7409	C	ARG	1090	-37.377	-21.778	19.878	1.00	44.78
ATCM	7410	N	ILE	1091	-37.513	-21.778	17.777	1.00	47.74
ATCM	7411	CA	ILE	1091	-37.472	-21.859	16.900	1.00	40.49
ATCM	7412	CB	ILE	1091	-37.275	-21.775	17.409	1.00	49.84
ATCM	7413	CG	ILE	1091	-37.577	-21.804	17.381	1.00	46.77
ATCM	7414	CH1	ILE	1091	-37.219	-21.779	17.131	1.00	47.61
ATCM	7415	CH2	ILE	1091	-37.719	-21.775	20.777	1.00	48.84
ATCM	7416	C	ILE	1091	-37.374	-21.811	19.418	1.00	49.56
ATCM	7417	C	ILE	1091	-37.374	-21.811	19.418	1.00	49.56
ATCM	7418	N	THR	1092	-37.711	-20.589	19.078	1.00	49.78
ATCM	7419	CA	THR	1092	-37.173	-20.778	18.778	1.00	43.64
ATCM	7420	CB	THR	1092	-37.671	-20.178	18.415	1.00	41.77

ATOM	7421	CG1	THR	1092	-28.972	-22.827	14.648	1.00	31.53
ATOM	7422	CG2	THR	1092	-29.357	-21.760	12.763	1.00	29.13
ATOM	7423	C	THR	1092	-31.156	-20.517	12.154	1.00	31.18
ATOM	7424	O	THR	1092	-30.742	-20.039	11.602	1.00	32.76
ATOM	7425	N	GLU	1093	-32.142	-20.742	12.197	1.00	32.10
ATOM	7426	CA	GLU	1093	-33.167	-21.405	11.913	1.00	34.19
ATOM	7427	CB	GLU	1093	-34.743	-21.190	12.115	1.00	35.10
ATOM	7428	CG	GLU	1093	-34.531	-21.694	12.240	1.00	40.33
ATOM	7429	CD	GLU	1093	-35.181	-23.460	12.720	1.00	44.38
ATOM	7430	OE1	GLU	1093	-36.357	-23.178	15.133	1.00	46.19
ATOM	7431	OE2	GLU	1093	-36.193	-24.347	11.142	1.00	45.11
ATOM	7432	C	GLU	1093	-33.766	-18.909	11.913	1.00	32.84
ATOM	7433	O	GLU	1091	-34.238	-18.366	10.115	1.00	33.67
ATOM	7434	N	ALA	1094	-33.461	-18.244	10.114	1.00	32.28
ATOM	7435	CA	ALA	1094	-33.701	-16.310	13.133	1.00	30.10
ATOM	7436	CB	ALA	1094	-33.876	-16.430	14.132	1.00	31.33
ATOM	7437	C	ALA	1094	-32.604	-11.965	11.113	1.00	29.13
ATOM	7438	O	ALA	1094	-32.381	-11.312	11.917	1.00	29.11
ATOM	7439	N	LEU	1095	-32.138	-13.134	11.112	1.00	27.17
ATOM	7440	CA	LEU	1095	-30.140	-15.637	11.135	1.00	26.10
ATOM	7441	CB	LEU	1095	-28.133	-11.134	11.135	1.00	27.11
ATOM	7442	CG	LEU	1095	-28.133	-11.133	11.132	1.00	28.11
ATOM	7443	CD1	LEU	1095	-27.133	-13.637	11.131	1.00	28.11
ATOM	7444	CD2	LEU	1095	-29.130	-13.138	11.136	1.00	32.13
ATOM	7445	C	LEU	1095	-29.130	-16.134	11.131	1.00	25.11
ATOM	7446	O	LEU	1095	-30.133	-17.136	11.131	1.00	19.11
ATOM	7447	N	ALA	1096	-29.134	-16.136	11.131	1.00	13.11
ATOM	7448	CA	ALA	1096	-29.134	-15.131	11.131	1.00	14.11
ATOM	7449	CB	ALA	1096	-29.133	-14.131	11.136	1.00	16.11
ATOM	7450	C	ALA	1096	-29.134	-14.134	11.131	1.00	11.11
ATOM	7451	O	ALA	1096	-29.133	-14.133	11.131	1.00	11.11
ATOM	7452	N	ILE	1097	-26.130	-16.133	11.138	1.00	12.11
ATOM	7453	CA	ILE	1097	-25.133	-16.132	11.135	1.00	11.11
ATOM	7454	CB	ILE	1097	-24.133	-14.133	11.131	1.00	10.11
ATOM	7455	CG2	ILE	1097	-24.133	-13.133	11.135	1.00	18.11
ATOM	7456	CG1	ILE	1097	-25.131	-14.138	11.131	1.00	19.11
ATOM	7457	CD1	ILE	1097	-24.133	-14.130	11.131	1.00	16.11
ATOM	7458	C	ILE	1097	-24.133	-17.133	11.131	1.00	11.11
ATOM	7459	O	ILE	1097	-24.133	-17.134	11.131	1.00	10.11
ATOM	7460	N	PRO	1098	-24.133	-17.133	11.131	1.00	11.11
ATOM	7461	CD	PRO	1098	-24.134	-17.132	11.131	1.00	12.11
ATOM	7462	CA	PRO	1098	-24.133	-19.130	11.131	1.00	17.11
ATOM	7463	CB	PRO	1098	-24.134	-19.130	11.131	1.00	11.11
ATOM	7464	CG	PRO	1098	-24.131	-18.133	11.131	1.00	14.11
ATOM	7465	C	PRO	1098	-24.133	-19.131	11.131	1.00	11.11
ATOM	7466	O	PRO	1098	-24.130	-18.138	11.131	1.00	11.11
ATOM	7467	N	VAL	1099	-24.133	-20.131	11.131	1.00	11.11
ATOM	7468	CA	VAL	1099	-24.133	-20.131	11.131	1.00	10.11
ATOM	7469	CB	VAL	1099	-24.133	-20.131	11.131	1.00	11.11
ATOM	7470	CG1	VAL	1099	-24.133	-21.131	11.131	1.00	20.11
ATOM	7471	CG2	VAL	1099	-26.133	-19.133	11.131	1.00	19.11
ATOM	7472	C	VAL	1099	-23.133	-21.132	11.131	1.00	20.11
ATOM	7473	O	VAL	1099	-24.133	-22.131	11.131	1.00	21.11
ATOM	7474	N	ILE	1100	-22.133	-21.131	11.131	1.00	20.11
ATOM	7475	CA	ILE	1100	-21.133	-22.131	11.131	1.00	19.11
ATOM	7476	CB	ILE	1100	-20.133	-22.133	11.131	1.00	18.11
ATOM	7477	CG2	ILE	1100	-19.133	-23.131	11.131	1.00	21.11
ATOM	7478	CG1	ILE	1100	-19.131	-22.134	11.131	1.00	19.11
ATOM	7479	CD1	ILE	1100	-18.133	-21.131	11.131	1.00	18.11
ATOM	7480	C	ILE	1100	-21.133	-23.134	11.131	1.00	17.11
ATOM	7481	O	ILE	1100	-21.131	-22.131	11.131	1.00	19.11
ATOM	7482	N	GLY	1101	-22.133	-24.131	11.131	1.00	17.11
ATOM	7483	CA	GLY	1101	-22.133	-25.131	11.131	1.00	15.11
ATOM	7484	C	GLY	1101	-21.133	-26.131	11.131	1.00	16.11
ATOM	7485	O	GLY	1101	-20.133	-26.131	11.131	1.00	14.11
ATOM	7486	N	ILE	1102	-21.133	-25.131	11.131	1.00	16.11
ATOM	7487	CA	ILE	1102	-20.133	-27.131	11.131	1.00	17.11
ATOM	7488	CB	ILE	1102	-19.133	-26.131	11.131	1.00	15.11
ATOM	7489	CG2	ILE	1102	-19.133	-25.131	11.131	1.00	16.11
ATOM	7490	CG1	ILE	1102	-19.131	-27.131	11.131	1.00	17.11
ATOM	7491	CD1	ILE	1102	-17.133	-27.131	11.131	1.00	17.11
ATOM	7492	C	ILE	1102	-21.133	-27.131	11.131	1.00	16.11
ATOM	7493	O	ILE	1102	-21.132	-27.131	11.131	1.00	18.11
ATOM	7494	N	GLY	1103	-22.133	-28.131	11.131	1.00	18.11
ATOM	7495	CA	GLY	1103	-22.133	-28.131	11.131	1.00	19.11
ATOM	7496	C	GLY	1103	-24.133	-28.131	11.131	1.00	21.11
ATOM	7497	O	GLY	1103	-24.133	-28.131	11.131	1.00	21.11

ATCM	7498	N	ALA	1104	-24.651	-27.972	21.217	1.00	22.82
ATCM	7499	CA	ALA	1104	-25.931	-27.353	20.908	1.00	25.45
ATCM	7500	CB	ALA	1104	-25.716	-25.938	20.259	1.00	25.68
ATCM	7501	C	ALA	1104	-26.771	-28.136	19.977	1.00	25.86
ATCM	7502	C	ALA	1104	-27.833	-27.170	19.511	1.00	26.77
ATCM	7503	N	GLY	1105	-26.297	-29.448	19.721	1.00	26.62
ATCM	7504	CA	GLY	1105	-27.020	-30.151	18.872	1.00	26.49
ATCM	7505	C	GLY	1105	-26.597	-30.340	17.450	1.00	26.15
ATCM	7506	O	GLY	1105	-25.667	-29.794	17.087	1.00	27.27
ATCM	7507	N	ASN	1106	-27.170	-30.906	16.514	1.00	24.67
ATCM	7508	CA	ASN	1106	-26.546	-30.447	15.935	1.00	25.18
ATCM	7509	CB	ASN	1106	-27.107	-32.363	14.511	1.00	25.83
ATCM	7510	CG	ASN	1106	-28.406	-31.757	14.545	1.00	28.39
ATCM	7511	OD1	ASN	1106	-28.704	-33.481	13.810	1.00	30.86
ATCM	7512	NE2	ASN	1106	-29.167	-30.414	15.396	1.00	26.73
ATCM	7513	C	ASN	1106	-27.451	-30.186	14.271	1.00	25.16
ATCM	7514	C	ASN	1106	-27.830	-30.117	13.046	1.00	26.31
ATCM	7515	N	VAL	1107	-28.183	-29.141	14.949	1.00	27.94
ATCM	7516	CA	VAL	1107	-29.437	-28.317	14.287	1.00	27.66
ATCM	7517	CB	VAL	1107	-30.180	-27.153	15.751	1.00	26.74
ATCM	7518	CG1	VAL	1107	-31.467	-28.184	14.137	1.00	30.17
ATCM	7519	CG2	VAL	1107	-31.150	-28.802	13.896	1.00	31.18
ATCM	7520	C	VAL	1107	-28.151	-29.189	13.461	1.00	27.14
ATCM	7521	O	VAL	1107	-29.771	-28.315	12.911	1.00	26.10
ATCM	7522	CA	THR	1108	-27.347	-29.846	14.767	1.00	24.64
ATCM	7523	C	THR	1108	-26.767	-29.340	13.850	1.00	25.17
ATCM	7524	CB	THR	1108	-25.591	-29.317	14.601	1.00	21.19
ATCM	7525	CG1	THR	1108	-24.711	-26.842	14.941	1.00	17.12
ATCM	7526	CG2	THR	1108	-26.116	-24.318	16.171	1.00	18.61
ATCM	7527	C	THR	1108	-26.141	-25.127	12.421	1.00	18.32
ATCM	7528	O	THR	1108	-26.374	-26.611	11.853	1.00	17.18
ATCM	7529	N	ASP	1109	-25.764	-24.115	11.820	1.00	21.11
ATCM	7530	CA	ASP	1109	-25.141	-24.356	10.451	1.00	21.07
ATCM	7531	CB	ASP	1109	-25.122	-23.116	9.919	1.00	17.11
ATCM	7532	CG	ASP	1109	-26.459	-22.815	9.901	1.00	21.19
ATCM	7533	OD1	A.P	1109	-27.191	-23.111	9.110	1.00	17.16
ATCM	7534	OD2	A.P	1109	-26.577	-21.115	10.181	1.00	17.14
ATCM	7535	C	A.P	1109	-23.861	-23.112	10.331	1.00	17.10
ATCM	7536	O	ASP	1109	-23.811	-23.115	9.153	1.00	21.10
ATCM	7537	N	GLY	1110	-22.161	-25.116	11.493	1.00	21.12
ATCM	7538	CA	GLY	1110	-21.155	-26.110	11.341	1.00	17.18
ATCM	7539	C	GLY	1110	-21.132	-25.115	10.920	1.00	17.18
ATCM	7540	O	GLY	1110	-22.321	-26.111	13.856	1.00	17.12
ATCM	7541	N	GLN	1111	-20.360	-27.119	13.346	1.00	18.11
ATCM	7542	CA	GLN	1111	-19.420	-27.115	14.315	1.00	17.17
ATCM	7543	CB	GLN	1111	-20.320	-29.113	11.100	1.00	21.10
ATCM	7544	CG	GLN	1111	-21.454	-29.812	14.149	1.00	21.12
ATCM	7545	CD	GLN	1111	-22.353	-29.416	15.781	1.00	21.17
ATCM	7546	OE1	GLN	1111	-21.950	-29.313	16.148	1.00	21.19
ATCM	7547	NE2	GLN	1111	-23.607	-29.116	14.146	1.00	31.19
ATCM	7548	C	GLN	1111	-18.462	-27.114	14.196	1.00	17.11
ATCM	7549	O	GLN	1111	-17.897	-27.112	13.679	1.00	17.10
ATCM	7550	N	ILE	1112	-18.189	-27.119	13.371	1.00	17.19
ATCM	7551	CA	ILE	1112	-16.116	-27.111	16.076	1.00	17.14
ATCM	7552	CB	ILE	1112	-16.414	-25.113	16.531	1.00	17.12
ATCM	7553	CG2	ILE	1112	-17.161	-25.116	17.786	1.00	17.10
ATCM	7554	CG1	ILE	1112	-14.945	-25.110	16.671	1.00	17.13
ATCM	7555	CD1	ILE	1112	-14.515	-23.116	16.715	1.00	17.19
ATCM	7556	C	ILE	1112	-16.417	-27.111	17.540	1.00	21.11
ATCM	7557	O	ILE	1112	-17.319	-28.114	18.321	1.00	17.11
ATCM	7558	N	LEU	1113	-15.118	-28.118	17.120	1.00	21.11
ATCM	7559	CA	LEU	1113	-14.116	-29.114	18.111	1.00	17.11
ATCM	7560	CB	LEU	1113	-15.110	-30.115	18.111	1.00	21.11
ATCM	7561	CG	LEU	1113	-15.117	-31.114	19.110	1.00	17.11
ATCM	7562	CD1	LEU	1113	-16.118	-30.119	20.111	1.00	17.11
ATCM	7563	CG2	LEU	1113	-15.111	-32.114	19.111	1.00	17.11
ATCM	7564	C	LEU	1113	-13.112	-28.117	18.111	1.00	17.11
ATCM	7565	O	LEU	1113	-12.114	-28.116	17.111	1.00	17.11
ATCM	7566	N	VAL	1114	-12.687	-27.114	20.111	1.00	17.11
ATCM	7567	CA	VAL	1114	-11.114	-29.114	20.111	1.00	17.11
ATCM	7568	CB	VAL	1114	-10.908	-28.111	21.111	1.00	17.11
ATCM	7569	CG1	VAL	1114	-9.111	-28.114	21.111	1.00	17.11
ATCM	7570	CG2	VAL	1114	-11.702	-27.110	22.111	1.00	17.11
ATCM	7571	C	VAL	1114	-10.618	-30.114	19.111	1.00	17.11
ATCM	7572	O	VAL	1114	-11.017	-31.111	20.111	1.00	17.11
ATCM	7573	N	PHE	1115	-11.111	-30.111	18.111	1.00	17.11
ATCM	7574	CA	PHE	1115	-11.111	-31.111	19.111	1.00	17.11

ATCM	7575	CF	MET	1115	-7.900	-30.840	17.390	1.00	14.14
ATCM	7576	CG	MET	1115	-6.823	-33.605	18.095	1.00	15.65
ATCM	7577	SL	MET	1115	-5.241	-33.856	17.297	1.00	13.15
ATCM	7578	CF	MET	1115	-4.722	-31.861	18.197	1.00	11.13
ATCM	7579	C	MET	1115	-8.492	-32.215	19.267	1.00	13.25
ATCM	7580	O	MET	1115	-8.533	-33.110	19.019	1.00	16.35
ATCM	7581	N	HIS	1116	-7.969	-31.866	20.421	1.00	12.84
ATCM	7582	CA	HIS	1116	-7.414	-32.808	21.377	1.00	14.12
ATCM	7583	CE	HIS	1116	-6.724	-33.107	21.941	1.00	13.42
ATCM	7584	CG	HIS	1116	-5.516	-31.756	22.084	1.00	14.34
ATCM	7585	CI2	HIS	1116	-5.403	-30.111	21.494	1.00	12.56
ATCM	7586	NI1	HIS	1116	-4.237	-31.839	22.165	1.00	14.51
ATCM	7587	CE1	HIS	1116	-3.384	-33.931	21.646	1.00	11.60
ATCM	7588	NE2	HIS	1116	-4.267	-29.419	21.230	1.00	19.44
ATCM	7589	C	HIS	1116	-8.476	-33.784	21.420	1.00	14.04
ATCM	7590	O	HIS	1116	-8.168	-34.439	22.232	1.00	16.57
ATCM	7591	N	ASP	1117	-9.717	-33.418	21.941	1.00	12.82
ATCM	7592	CA	ASP	1117	-10.794	-34.176	21.536	1.00	19.37
ATCM	7593	CB	ASP	1117	-12.014	-33.819	21.384	1.00	13.67
ATCM	7594	CG	ASP	1117	-11.142	-32.484	22.174	1.00	13.82
ATCM	7595	GI1	ASP	1117	-10.508	-32.782	22.947	1.00	13.40
ATCM	7596	GI2	ASP	1117	-12.486	-31.700	22.364	1.00	16.11
ATCM	7597	C	ASP	1117	-11.259	-33.108	21.924	1.00	17.85
ATCM	7598	O	ASP	1117	-11.438	-36.106	21.631	1.00	13.73
ATCM	7599	N	ALA	1118	-11.443	-34.132	22.211	1.00	16.76
ATCM	7600	CA	ALA	1118	-11.927	-35.387	19.003	1.00	20.90
ATCM	7601	CB	ALA	1118	-12.297	-34.706	19.968	1.00	21.95
ATCM	7602	C	ALA	1118	-10.983	-36.123	19.305	1.00	22.78
ATCM	7603	O	ALA	1118	-11.420	-37.115	19.813	1.00	23.43
ATCM	7604	N	PHE	1119	-9.693	-36.118	19.846	1.00	23.93
ATCM	7605	CA	PHE	1119	-8.739	-37.109	19.540	1.00	22.56
ATCM	7606	CB	PHE	1119	-7.670	-36.470	19.831	1.00	23.16
ATCM	7607	CG	PHE	1119	-8.220	-35.814	19.375	1.00	30.71
ATCM	7608	CD1	PHE	1119	-9.077	-36.107	19.424	1.00	31.69
ATCM	7609	CD2	PHE	1119	-7.901	-34.701	19.703	1.00	18.44
ATCM	7610	CE1	PHE	1119	-8.620	-38.003	19.420	1.00	40.61
ATCM	7611	CE2	PHE	1119	-8.446	-37.860	19.172	1.00	19.76
ATCM	7612	CE3	PHE	1119	-9.314	-34.107	19.286	1.00	41.23
ATCM	7613	C	PHE	1119	-8.056	-38.100	19.309	1.00	26.58
ATCM	7614	O	PHE	1119	-6.941	-38.460	19.212	1.00	30.89
ATCM	7615	N	GLY	1120	-8.817	-38.109	20.474	1.00	21.48
ATCM	7616	CA	GLY	1120	-8.321	-39.156	21.505	1.00	24.13
ATCM	7617	C	GLY	1120	-7.015	-38.701	22.160	1.00	23.62
ATCM	7618	O	GLY	1120	-6.283	-39.758	22.501	1.00	22.16
ATCM	7619	N	ILE	1121	-6.680	-37.161	22.252	1.00	20.44
ATCM	7620	CA	ILE	1121	-5.441	-37.144	22.900	1.00	19.00
ATCM	7621	CB	ILE	1121	-4.334	-37.130	22.205	1.00	16.73
ATCM	7622	CG2	ILE	1121	-3.614	-38.425	22.995	1.00	16.32
ATCM	7623	CG1	ILE	1121	-4.456	-36.100	20.717	1.00	15.62
ATCM	7624	C	ILE	1121	-4.234	-34.960	19.931	1.00	11.00
ATCM	7625	O	ILE	1121	-5.754	-36.103	21.359	1.00	19.57
ATCM	7626	N	THR	1122	-5.100	-37.103	22.265	1.00	17.67
ATCM	7627	CA	THR	1122	-6.771	-36.100	21.501	1.00	20.23
ATCM	7628	CB	THR	1122	-7.143	-35.671	22.908	1.00	23.61
ATCM	7629	CG	THR	1122	-8.387	-34.703	22.909	1.00	24.49
ATCM	7630	GI1	THR	1122	-8.425	-35.673	22.185	1.00	23.23
ATCM	7631	GI2	THR	1122	-8.053	-33.409	22.402	1.00	18.95
ATCM	7632	C	THR	1122	-7.443	-36.340	22.711	1.00	26.71
ATCM	7633	O	THR	1122	-8.052	-37.372	22.228	1.00	26.64
ATCM	7634	N	GLY	1123	-7.002	-36.362	22.055	1.00	30.43
ATCM	7635	CA	GLY	1123	-7.207	-38.113	22.876	1.00	17.37
ATCM	7636	C	GLY	1123	-8.232	-36.059	22.484	1.00	30.85
ATCM	7637	O	GLY	1123	-8.265	-36.647	22.844	1.00	41.04
ATCM	7638	N	GLY	1124	-9.441	-38.986	22.111	1.00	40.46
ATCM	7639	CA	GLY	1124	-10.569	-39.851	22.075	1.00	18.07
ATCM	7640	C	GLY	1124	-11.493	-39.266	22.047	1.00	32.18
ATCM	7641	O	GLY	1124	-12.953	-39.359	22.110	1.00	38.00
ATCM	7642	N	HIS	1125	-11.763	-38.026	19.931	1.00	36.46
ATCM	7643	CA	HIS	1125	-12.904	-39.279	19.931	1.00	35.07
ATCM	7644	C	HIS	1125	-12.653	-38.700	19.700	1.00	37.00
ATCM	7645	CG	HIS	1125	-12.309	-37.771	19.600	1.00	39.81
ATCM	7646	CI1	HIS	1125	-11.111	-39.400	19.500	1.00	40.00
ATCM	7647	NI1	HIS	1125	-13.207	-38.769	19.104	1.00	40.00
ATCM	7648	CE1	HIS	1125	-12.691	-39.541	19.901	1.00	40.40
ATCM	7649	NE1	HIS	1125	-11.440	-39.500	19.900	1.00	41.00
ATCM	7650	O	HIS	1125	-10.000	-39.000	19.000	1.00	41.00
ATCM	7651	N	HIS	1125	-10.410	-38.000	19.000	1.00	41.00

ATOM	7652	N	ILE	1126	-13.466	-35.466	28.178	1.00	31.25
ATOM	7653	CA	ILE	1126	-13.835	-35.435	27.215	1.00	28.48
ATOM	7654	CB	ILE	1126	-13.804	-35.963	25.767	1.00	16.91
ATOM	7655	CG2	ILE	1126	-12.394	-36.360	25.384	1.00	16.96
ATOM	7656	CG1	ILE	1126	-14.763	-37.134	25.614	1.00	15.19
ATOM	7657	CD1	ILE	1126	-14.926	-37.612	24.194	1.00	12.08
ATOM	7658	C	ILE	1126	-15.249	-34.961	27.540	1.00	18.24
ATOM	7659	C	ILE	1126	-16.014	-35.722	25.122	1.00	11.48
ATOM	7660	C	ILE	1126	-15.586	-33.719	27.168	1.00	11.92
ATOM	7661	H	PRO	1127	-14.828	-32.750	26.350	1.00	16.06
ATOM	7662	CD	PRO	1127	-16.936	-33.232	25.470	1.00	17.27
ATOM	7663	CA	PRO	1127	-16.946	-31.831	26.853	1.00	17.40
ATOM	7664	CB	PRO	1127	-15.944	-31.927	26.744	1.00	19.08
ATOM	7665	CG	PRO	1127	-18.045	-34.156	26.025	1.00	17.42
ATOM	7666	C	PRO	1127	-17.830	-34.877	25.962	1.00	15.23
ATOM	7667	C	PRO	1127	-19.213	-34.081	27.153	1.00	16.67
ATOM	7668	N	LYS	1128	-20.354	-34.845	27.145	1.00	19.40
ATOM	7669	CA	LYS	1128	-21.571	-34.639	28.133	1.00	12.06
ATOM	7670	CB	LYS	1128	-21.563	-35.336	29.376	1.00	17.86
ATOM	7671	CG	LYS	1128	-20.410	-34.834	30.254	1.00	11.77
ATOM	7672	CD	LYS	1128	-20.424	-35.613	31.356	1.00	12.92
ATOM	7673	CE	LYS	1128	-19.313	-35.170	32.465	1.00	15.13
ATOM	7674	NE	LYS	1128	-20.746	-34.674	35.641	1.00	13.13
ATOM	7675	C	LYS	1128	-21.116	-35.595	35.120	1.00	18.71
ATOM	7676	O	LYS	1128	-20.449	-33.452	35.019	1.00	25.91
ATOM	7677	N	PHE	1129	-20.882	-33.093	23.834	1.00	14.94
ATOM	7678	CA	PHE	1129	-21.110	-31.865	23.761	1.00	14.78
ATOM	7679	CB	PHE	1129	-20.117	-31.117	24.363	1.00	25.53
ATOM	7680	CG	PHE	1129	-18.967	-31.861	23.828	1.00	25.50
ATOM	7681	CD1	PHE	1129	-20.214	-31.193	25.828	1.00	26.10
ATOM	7682	CD2	PHE	1129	-17.935	-29.873	23.876	1.00	24.44
ATOM	7683	CE1	PHE	1129	-19.135	-29.872	25.889	1.00	23.85
ATOM	7684	CE2	PHE	1129	-18.053	-29.882	25.113	1.00	25.82
ATOM	7685	CZ	PHE	1129	-19.830	-33.444	22.809	1.00	24.51
ATOM	7686	C	PHE	1129	-20.017	-33.241	21.633	1.00	25.21
ATOM	7687	O	PHE	1129	-18.711	-33.975	22.145	1.00	22.79
ATOM	7688	N	ALA	1130	-17.111	-34.352	22.400	1.00	22.40
ATOM	7689	CA	ALA	1130	-16.145	-33.932	21.947	1.00	22.61
ATOM	7690	CB	ALA	1130	-17.141	-35.793	21.030	1.00	22.73
ATOM	7691	C	ALA	1130	-18.123	-36.627	20.871	1.00	23.47
ATOM	7692	O	ALA	1130	-16.114	-35.135	21.995	1.00	21.42
ATOM	7693	N	LYS	1131	-16.959	-37.473	21.354	1.00	21.01
ATOM	7694	CA	LYS	1131	-17.617	-37.723	19.354	1.00	21.35
ATOM	7695	CB	LYS	1131	-17.613	-39.131	18.697	1.00	25.39
ATOM	7696	CG	LYS	1131	-18.665	-39.339	19.732	1.00	27.36
ATOM	7697	CD	LYS	1131	-18.531	-40.719	17.696	1.00	28.45
ATOM	7698	CE	LYS	1131	-19.521	-41.806	16.115	1.00	30.79
ATOM	7699	NZ	LYS	1131	-15.775	-37.170	21.089	1.00	20.50
ATOM	7700	C	LYS	1131	-14.619	-36.945	19.486	1.00	19.85
ATOM	7701	O	LYS	1131	-14.929	-38.945	16.495	1.00	18.18
ATOM	7702	N	ASN	1132	-13.453	-35.370	20.100	1.00	19.99
ATOM	7703	CA	ASN	1132	-12.443	-34.265	19.115	1.00	16.83
ATOM	7704	CB	ASN	1132	-11.510	-40.804	17.775	1.00	18.02
ATOM	7705	CG	ASN	1132	-11.619	-42.634	16.012	1.00	17.99
ATOM	7706	OD1	ASN	1132	-13.772	-41.537	17.836	1.00	17.64
ATOM	7707	ND2	ASN	1132	-13.181	-43.141	16.736	1.00	18.64
ATOM	7708	C	ASN	1132	-13.581	-41.341	17.981	1.00	19.00
ATOM	7709	O	ASN	1132	-13.295	-39.460	17.476	1.00	18.32
ATOM	7710	N	PHE	1133	-13.156	-40.829	16.161	1.00	18.77
ATOM	7711	CA	PHE	1133	-13.485	-39.109	17.768	1.00	19.12
ATOM	7712	CB	PHE	1133	-14.334	-38.142	17.597	1.00	19.88
ATOM	7713	CG	PHE	1133	-14.835	-37.142	16.127	1.00	20.42
ATOM	7714	CD	PHE	1133	-15.118	-36.100	14.731	1.00	21.73
ATOM	7715	CE1	PHE	1133	-16.144	-36.453	14.329	1.00	22.12
ATOM	7716	CE2	PHE	1133	-17.016	-37.178	14.592	1.00	22.46
ATOM	7717	C	PHE	1133	-17.225	-36.679	15.431	1.00	21.32
ATOM	7718	O	PHE	1133	-12.208	-40.954	16.925	1.00	18.33
ATOM	7719	C	PHE	1133	-11.314	-41.857	15.144	1.00	19.05
ATOM	7720	O	PHE	1133	-11.094	-40.649	16.945	1.00	17.75
ATOM	7721	N	LEU	1134	-9.020	-45.080	16.488	1.00	18.27
ATOM	7722	CA	LEU	1134	-9.691	-41.143	17.777	1.00	17.93
ATOM	7723	CB	LEU	1134	-10.365	-41.854	17.027	1.00	19.57
ATOM	7724	CG	LEU	1134	-11.033	-41.987	15.765	1.00	18.41
ATOM	7725	CD	LEU	1134	-11.271	-41.835	17.935	1.00	18.81
ATOM	7726	C	LEU	1134	-11.176	-42.123	16.777	1.00	19.68
ATOM	7727	O	LEU	1134	-11.460	-44.154	16.167	1.00	17.88
ATOM	7728	N	ALA	1135	-10.727	-43.157	16.151	1.00	22.36

ATOM	7710	FA	ALA	1135	-11.322	-44.173	16.607	1.00	27.76
ATOM	7711	FB	ALA	1135	-11.725	-44.113	15.904	1.00	26.50
ATOM	7712	C	ALA	1135	-11.867	-45.087	17.604	1.00	32.49
ATOM	7713	O	ALA	1135	-11.883	-44.500	17.401	1.00	33.61
ATOM	7714	N	GLU	1136	-12.785	-44.508	16.904	1.00	36.50
ATOM	7715	CA	GLU	1136	-13.176	-45.210	15.903	1.00	30.38
ATOM	7716	CB	GLU	1136	-14.176	-44.108	15.403	1.00	43.73
ATOM	7717	CG	GLU	1136	-15.331	-43.403	16.441	1.00	48.10
ATOM	7718	CD	GLU	1136	-16.438	-44.100	17.054	1.00	50.51
ATOM	7719	OE1	GLU	1136	-16.122	-45.107	17.846	1.00	51.66
ATOM	7720	OE2	GLU	1136	-17.719	-44.507	16.735	1.00	51.42
ATOM	7740	C	GLY	1137	-12.865	-45.371	14.800	1.00	31.01
ATOM	7741	O	GLY	1137	-12.741	-47.000	14.544	1.00	32.71
ATOM	7742	N	THR	1137	-12.091	-44.300	14.195	1.00	39.55
ATOM	7743	CA	THR	1137	-11.273	-45.100	13.037	1.00	38.43
ATOM	7744	CB	THR	1137	-10.841	-44.100	13.124	1.00	39.68
ATOM	7745	CG1	THR	1137	-9.779	-44.500	11.311	1.00	41.87
ATOM	7746	CG2	THR	1137	-10.505	-43.000	12.953	1.00	37.36
ATOM	7747	C	THR	1137	-9.943	-46.100	10.474	1.00	37.82
ATOM	7748	O	THR	1137	-9.965	-47.000	10.641	1.00	40.29
ATOM	7749	N	GLY	1138	-8.932	-45.100	10.639	1.00	33.87
ATOM	7750	CA	GLY	1138	-7.859	-45.000	14.034	1.00	31.20
ATOM	7751	C	GLY	1138	-6.522	-45.100	13.574	1.00	19.12
ATOM	7752	O	GLY	1138	-5.355	-45.100	13.951	1.00	27.41
ATOM	7753	N	ASP	1139	-6.865	-44.100	12.711	1.00	25.34
ATOM	7754	CA	ASP	1139	-5.803	-43.100	12.103	1.00	23.78
ATOM	7755	CB	ASP	1139	-5.746	-43.100	10.635	1.00	27.39
ATOM	7756	CG	ASP	1139	-5.008	-42.100	9.841	1.00	30.32
ATOM	7757	CD	ASP	1139	-5.661	-41.100	9.048	1.00	26.93
ATOM	7758	OE2	ASP	1139	-3.776	-42.100	10.021	1.00	31.29
ATOM	7759	C	ASP	1139	-6.308	-41.100	12.260	1.00	19.81
ATOM	7760	O	ASP	1139	-7.502	-41.100	12.137	1.00	17.54
ATOM	7761	N	LEU	1140	-5.305	-40.800	12.548	1.00	18.09
ATOM	7762	CA	LEU	1140	-5.947	-39.445	12.737	1.00	16.16
ATOM	7763	CB	LEU	1140	-4.707	-38.100	13.560	1.00	15.40
ATOM	7764	CG	LEU	1140	-5.116	-37.000	13.303	1.00	14.63
ATOM	7765	CG1	LEU	1140	-4.378	-38.100	14.873	1.00	14.86
ATOM	7766	CD1	LEU	1140	-5.217	-39.100	13.276	1.00	14.86
ATOM	7767	C	LEU	1140	-6.516	-38.100	11.507	1.00	15.51
ATOM	7768	O	LEU	1140	-7.594	-38.100	11.827	1.00	15.94
ATOM	7769	N	ARG	1141	-6.006	-39.003	10.325	1.00	15.97
ATOM	7770	CA	ARG	1141	-6.506	-38.451	9.129	1.00	17.73
ATOM	7771	CB	ARG	1141	-5.678	-38.100	7.416	1.00	16.46
ATOM	7772	CG	ARG	1141	-4.473	-37.000	7.344	1.00	20.14
ATOM	7773	CD	ARG	1141	-5.430	-37.000	6.316	1.00	19.89
ATOM	7774	NE	ARG	1141	-2.079	-36.984	6.375	1.00	21.00
ATOM	7775	CZ	ARG	1141	-1.465	-36.945	7.343	1.00	21.89
ATOM	7776	NH1	ARG	1141	-1.511	-37.105	8.351	1.00	20.48
ATOM	7777	NH2	ARG	1141	-0.407	-36.940	7.304	1.00	23.01
ATOM	7778	C	ARG	1141	-7.970	-37.000	8.385	1.00	17.06
ATOM	7779	O	ARG	1141	-6.910	-33.100	8.184	1.00	16.58
ATOM	7780	N	ALA	1142	-8.006	-40.100	9.146	1.00	17.77
ATOM	7781	CA	ALA	1142	-9.100	-41.004	6.963	1.00	17.45
ATOM	7782	CB	ALA	1142	-9.208	-42.100	6.141	1.00	19.12
ATOM	7783	C	ALA	1142	-10.305	-40.471	6.442	1.00	18.05
ATOM	7784	O	ALA	1142	-11.504	-40.100	6.601	1.00	18.01
ATOM	7785	N	ALA	1143	-9.905	-40.100	11.100	1.00	17.41
ATOM	7786	CA	ALA	1143	-10.804	-39.000	12.100	1.00	18.13
ATOM	7787	CB	ALA	1143	-10.007	-39.468	13.010	1.00	17.81
ATOM	7788	C	ALA	1143	-11.300	-38.240	11.710	1.00	16.96
ATOM	7789	O	ALA	1143	-12.525	-37.821	11.900	1.00	16.07
ATOM	7790	N	VAL	1144	-10.404	-37.449	11.110	1.00	16.10
ATOM	7791	CA	VAL	1144	-10.816	-36.135	10.603	1.00	17.64
ATOM	7792	CB	VAL	1144	-9.604	-35.412	9.989	1.00	17.57
ATOM	7793	CG1	VAL	1144	-10.000	-34.114	9.326	1.00	15.63
ATOM	7794	CG2	VAL	1144	-8.561	-35.115	11.078	1.00	15.09
ATOM	7795	C	VAL	1144	-11.900	-36.290	9.528	1.00	18.07
ATOM	7796	O	VAL	1144	-12.928	-35.615	9.560	1.00	17.83
ATOM	7797	N	ARG	1145	-11.606	-37.101	8.575	1.00	19.43
ATOM	7798	CA	ARG	1145	-12.619	-37.408	7.507	1.00	21.52
ATOM	7799	CB	ARG	1145	-12.009	-38.405	6.514	1.00	22.86
ATOM	7800	CG	ARG	1145	-10.907	-37.920	5.690	1.00	23.87
ATOM	7801	CD	ARG	1145	-10.570	-38.831	4.565	1.00	26.94
ATOM	7802	NE	ARG	1145	-10.000	-40.162	5.055	1.00	27.72
ATOM	7803	CZ	ARG	1145	-8.771	-40.448	5.207	1.00	26.31
ATOM	7804	NH1	ARG	1145	-7.846	-39.544	4.909	1.00	25.59
ATOM	7805	NH2	ARG	1145	-8.407	-41.646	5.639	1.00	27.26

ATOM	7000	C	ARG	1145	-13.965	-37.865	-1.050	1.00	12.32
ATOM	7001	N	ARG	1145	-15.010	-37.475	-1.031	1.00	12.80
ATOM	7002	N	GLN	1146	-13.941	-36.685	-0.008	1.00	21.32
ATOM	7003	CA	GLN	1146	-15.171	-34.190	-0.701	1.00	12.69
ATOM	7004	CG	GLN	1146	-14.855	-33.313	-10.631	1.00	24.27
ATOM	7005	CG	GLN	1146	-16.031	-31.083	-11.161	1.00	29.43
ATOM	7006	CD	GLN	1146	-15.732	-32.213	-13.132	1.00	34.61
ATOM	7007	OE1	GLN	1146	-14.332	-33.067	-11.833	1.00	36.83
ATOM	7008	NE2	GLN	1146	-16.382	-32.213	-13.003	1.00	35.93
ATOM	7009	C	GLN	1146	-15.918	-33.077	-10.423	1.00	22.56
ATOM	7010	O	GLN	1146	-17.152	-33.043	-10.448	1.00	19.63
ATOM	7011	N	TYR	1147	-15.167	-33.165	-11.007	1.00	20.33
ATOM	7012	CA	TYR	1147	-15.774	-33.051	-11.739	1.00	22.67
ATOM	7013	CB	TYR	1147	-14.630	-33.256	-12.478	1.00	29.90
ATOM	7014	CG	TYR	1147	-15.136	-33.930	-12.979	1.00	21.86
ATOM	7015	CH	TYR	1147	-16.313	-33.755	-13.721	1.00	20.22
ATOM	7016	OH	TYR	1147	-16.713	-32.511	-14.186	1.00	21.50
ATOM	7017	CH	TYR	1147	-14.374	-33.759	-12.719	1.00	20.91
ATOM	7018	CH2	TYR	1147	-14.769	-33.509	-13.180	1.00	20.76
ATOM	7019	CH	TYR	1147	-15.333	-33.309	-13.919	1.00	22.56
ATOM	7020	CH	TYR	1147	-16.345	-33.133	-14.354	1.00	21.72
ATOM	7021	C	PRO	1148	-16.603	-33.131	-10.731	1.00	22.11
ATOM	7022	O	TYR	1147	-17.643	-34.732	-10.963	1.00	23.56
ATOM	7023	N	MET	1148	-15.355	-34.881	-9.611	1.00	22.47
ATOM	7024	CA	MET	1148	-16.441	-34.031	-8.580	1.00	23.31
ATOM	7025	CB	MET	1148	-15.427	-33.835	-7.453	1.00	24.14
ATOM	7026	CG	MET	1148	-14.192	-33.071	-7.873	1.00	25.93
ATOM	7027	SD	MET	1148	-12.910	-33.130	-6.619	1.00	24.97
ATOM	7028	CE	MET	1148	-13.545	-32.034	-5.383	1.00	23.81
ATOM	7029	C	MET	1148	-17.091	-34.704	-8.011	1.00	25.12
ATOM	7030	O	MET	1148	-18.743	-34.033	-7.868	1.00	21.43
ATOM	7031	N	ALA	1149	-17.593	-35.932	-7.709	1.00	23.17
ATOM	7032	CA	ALA	1149	-18.718	-36.745	-7.133	1.00	21.28
ATOM	7033	CB	ALA	1149	-18.234	-38.112	-6.750	1.00	23.46
ATOM	7034	C	ALA	1149	-19.914	-36.838	-5.079	1.00	21.06
ATOM	7035	O	ALA	1149	-21.053	-36.613	-7.669	1.00	23.40
ATOM	7036	N	GLU	1150	-19.637	-37.135	-8.346	1.00	23.16
ATOM	7037	CA	GLU	1150	-20.733	-37.235	-10.319	1.00	26.28
ATOM	7038	CB	GLU	1150	-20.713	-37.878	-11.634	1.00	27.57
ATOM	7039	CG	GLU	1150	-20.336	-38.347	-11.608	1.00	28.54
ATOM	7040	CD	GLU	1150	-19.811	-38.919	-12.890	1.00	28.17
ATOM	7041	OE1	GLU	1150	-20.077	-37.508	-13.984	1.00	26.42
ATOM	7042	OE2	GLU	1150	-18.773	-38.881	-12.796	1.00	33.92
ATOM	7043	C	GLU	1150	-21.411	-37.901	-10.581	1.00	26.66
ATOM	7044	O	GLU	1150	-22.397	-37.813	-10.949	1.00	27.42
ATOM	7045	N	VAL	1151	-20.685	-34.805	-10.406	1.00	27.27
ATOM	7046	CA	VAL	1151	-21.763	-35.486	-10.617	1.00	27.27
ATOM	7047	CB	VAL	1151	-20.773	-33.384	-10.668	1.00	27.11
ATOM	7048	CG	VAL	1151	-20.815	-34.005	-10.609	1.00	23.63
ATOM	7049	CG	VAL	1151	-19.372	-33.512	-11.945	1.00	23.64
ATOM	7050	C	VAL	1151	-22.743	-33.153	-9.495	1.00	28.77
ATOM	7051	O	VAL	1151	-23.584	-33.777	-9.749	1.00	28.71
ATOM	7052	N	GLU	1152	-21.783	-34.304	-8.056	1.00	30.65
ATOM	7053	CA	GLU	1152	-22.677	-35.389	-7.112	1.00	33.92
ATOM	7054	CB	GLU	1152	-21.816	-35.117	-5.813	1.00	34.31
ATOM	7055	CG	GLU	1152	-23.647	-35.774	-4.567	1.00	38.15
ATOM	7056	CD	GLU	1152	-21.773	-35.541	-3.545	1.00	38.92
ATOM	7057	OE1	GLU	1152	-23.477	-35.501	-2.346	1.00	43.20
ATOM	7058	OE2	GLU	1152	-20.533	-35.185	-3.485	1.00	41.60
ATOM	7059	C	GLY	1152	-23.867	-35.395	-7.051	1.00	34.76
ATOM	7060	O	GLY	1152	-24.942	-35.456	-6.640	1.00	35.70
ATOM	7061	N	LEU	1153	-23.769	-35.147	-7.468	1.00	34.67
ATOM	7062	CA	LEU	1153	-24.814	-35.102	-7.456	1.00	34.62
ATOM	7063	CB	LEU	1153	-24.284	-34.534	-7.559	1.00	25.72
ATOM	7064	CG	LEU	1153	-23.645	-34.926	-6.357	1.00	39.86
ATOM	7065	C	LEU	1153	-25.787	-34.853	-8.596	1.00	31.95
ATOM	7066	O	LEU	1153	-26.974	-35.157	-8.487	1.00	25.54
ATOM	7067	N	GLY	1154	-25.280	-35.303	-9.692	1.00	30.07
ATOM	7068	CA	GLY	1154	-26.130	-35.033	-10.833	1.00	28.64
ATOM	7069	C	GLY	1154	-25.953	-35.093	-11.912	1.00	27.31
ATOM	7070	O	GLY	1154	-26.491	-35.963	-13.006	1.00	27.96
ATOM	7071	N	VAL	1155	-25.197	-34.143	-11.599	1.00	27.11
ATOM	7072	CA	VAL	1155	-24.944	-34.203	-12.556	1.00	27.30
ATOM	7073	CB	VAL	1155	-23.969	-33.252	-11.984	1.00	27.92
ATOM	7074	CG1	VAL	1155	-23.728	-40.357	-13.005	1.00	30.23
ATOM	7075	CG2	VAL	1155	-24.528	-33.828	-10.692	1.00	31.86
ATOM	7076	C	VAL	1155	-24.333	-37.614	-15.823	1.00	26.47

ATOM	7884	VAL	1156	-14.616	-36.865	14.745	1.00	26.28	
ATOM	7884	N	TYR	1156	-12.445	-36.696	1.7436	1.00	26.79
ATOM	7885	CA	TYR	1156	-2.1828	-35.821	14.746	1.00	26.80
ATOM	7886	CB	TYR	1156	-2.1307	-36.124	14.709	1.00	24.71
ATOM	7887	CD	TYR	1156	-2.1605	-35.437	15.867	1.00	24.07
ATOM	7888	CE1	TYR	1156	-2.1649	-35.976	15.156	1.00	23.28
ATOM	7889	CE2	TYR	1156	-2.073	-35.306	15.242	1.00	23.96
ATOM	7890	CE3	TYR	1156	-1.964	-34.213	15.690	1.00	24.41
ATOM	7891	CE4	TYR	1156	-1.391	-34.533	15.768	1.00	24.59
ATOM	7892	CH	TYR	1156	-1.455	-34.083	15.041	1.00	24.21
ATOM	7893	OH	TYR	1156	-1.929	-33.395	15.112	1.00	23.1
ATOM	7894	C	TYR	1156	-2.116	-34.474	14.686	1.00	26.37
ATOM	7895	O	TYR	1156	-2.396	-33.799	1.642	1.00	26.36
ATOM	7896	N	PRO	1157	-2.1471	-33.876	1.844	1.00	27.27
ATOM	7897	CD	PRO	1157	-2.555	-32.865	15.017	1.00	26.8
ATOM	7898	CA	PRO	1157	-2.609	-33.309	15.171	1.00	26.72
ATOM	7899	CB	PRO	1157	-2.1499	-32.865	15.128	1.00	26.59
ATOM	7900	CG	PRO	1157	-2.1117	-32.134	15.316	1.00	26.71
ATOM	7901	C	PRO	1157	-2.4887	-32.819	15.250	1.00	30.00
ATOM	7902	O	PRO	1157	-2.5324	-33.377	15.740	1.00	29.71
ATOM	7903	N	GLY	1158	-2.1786	-33.409	15.046	1.00	30.14
ATOM	7904	CA	GLY	1158	-2.5349	-32.167	15.278	1.00	31.69
ATOM	7905	C	GLY	1158	-2.6648	-32.847	15.540	1.00	31.83
ATOM	7906	O	GLY	1158	-2.6239	-31.321	20.234	1.00	31.49
ATOM	7907	N	GLY	1158	-1.8779	-32.821	15.844	1.00	33.46
ATOM	7908	CA	GLY	1158	-2.5334	-32.136	21.036	1.00	34.89
ATOM	7909	CB	GLY	1158	-1.8791	-32.675	21.122	1.00	36.68
ATOM	7910	CG	GLY	1158	-3.4333	-32.811	21.049	1.00	36.69
ATOM	7911	CD	GLY	1158	-1.452	-32.241	21.503	1.00	39.50
ATOM	7912	CE1	GLY	1158	-3.1152	-32.827	21.269	1.00	41.54
ATOM	7913	CE2	GLY	1158	-3.1282	-32.398	20.360	1.00	39.53
ATOM	7914	C	GLY	1158	-2.5685	-32.403	21.285	1.00	35.20
ATOM	7915	O	GLY	1158	-1.7933	-32.802	23.325	1.00	38.65
ATOM	7916	N	GLY	1159	-1.6664	-32.356	22.167	1.00	39.14
ATOM	7917	CA	GLY	1159	-2.5763	-32.541	21.375	1.00	35.10
ATOM	7918	CB	GLY	1159	-1.4379	-32.338	21.951	1.00	37.43
ATOM	7919	CG	GLY	1159	-2.557	-40.802	21.761	1.00	41.74
ATOM	7920	CD	GLY	1159	-1.321	-40.838	20.789	1.00	42.69
ATOM	7921	CE1	GLY	1159	-1.4334	-40.410	20.051	1.00	42.87
ATOM	7922	CE2	GLY	1159	-2.5499	-40.863	20.363	1.00	42.18
ATOM	7923	C	GLY	1159	-1.4368	-32.541	23.58	1.00	33.37
ATOM	7924	O	GLY	1159	-1.4259	-32.165	24.653	1.00	31.37
ATOM	7925	N	HIS	1160	-1.4777	-32.321	21.637	1.00	32.51
ATOM	7926	CA	HIS	1160	-2.5939	-32.378	21.781	1.00	32.69
ATOM	7927	CB	HIS	1160	-2.5016	-32.197	21.566	1.00	31.61
ATOM	7928	CG	HIS	1160	-2.357	-32.377	21.347	1.00	29.21
ATOM	7929	CD	HIS	1160	-2.511	-32.131	20.071	1.00	27.77
ATOM	7930	ND1	HIS	1160	-2.540	-32.331	21.391	1.00	28.09
ATOM	7931	CE1	HIS	1160	-2.501	-32.331	21.396	1.00	25.97
ATOM	7932	NE2	HIS	1160	-2.566	-32.197	20.251	1.00	28.07
ATOM	7933	C	HIS	1160	-2.575	-32.393	21.399	1.00	33.71
ATOM	7934	O	HIS	1160	-2.5217	-32.394	21.874	1.00	1.43
ATOM	7935	N	SER	1161	-2.5069	-34.111	25.013	1.00	4.89
ATOM	7936	CA	SER	1161	-2.5069	-32.394	25.130	1.00	6.71
ATOM	7937	CB	SER	1161	-2.5069	-32.394	25.098	1.00	8.23
ATOM	7938	CG	SER	1161	-2.5069	-32.394	25.130	1.00	5.56
ATOM	7939	C	SER	1161	-2.5069	-32.394	25.130	1.00	5.56
ATOM	7940	O	SER	1161	-2.5069	-32.394	25.130	1.00	5.56
ATOM	7941	N	PHE	1162	-2.5069	-32.394	25.130	1.00	8.51
ATOM	7942	CA	PHE	1162	-2.5069	-32.394	25.028	1.00	9.57
ATOM	7943	CB	PHE	1162	-2.5069	-32.394	25.692	1.00	46.97
ATOM	7944	CG	PHE	1162	-2.5069	-32.394	25.967	1.00	47.96
ATOM	7945	CD1	PHE	1162	-2.5069	-32.394	25.961	1.00	44.75
ATOM	7946	CD2	PHE	1162	-2.5069	-32.394	25.237	1.00	44.14
ATOM	7947	CE1	PHE	1162	-2.5069	-32.394	25.213	1.00	45.36
ATOM	7948	CE2	PHE	1162	-2.5069	-32.394	25.492	1.00	41.59
ATOM	7949	CZ	PHE	1162	-2.5069	-32.394	25.480	1.00	41.94
ATOM	7950	C	PHE	1162	-2.5069	-32.394	25.848	1.00	34.51
ATOM	7951	O	PHE	1162	-2.5069	-32.394	24.715	1.00	34.53
ATOM	7952	N	HIS	1164	-3.7736	-32.562	26.944	1.00	40.34
ATOM	7953	CA	HIS	1164	-3.7736	-32.562	26.912	1.00	40.45
ATOM	7954	CB	HIS	1164	-3.7736	-32.562	26.812	1.00	39.13
ATOM	7955	CG	HIS	1164	-3.7736	-32.562	26.504	1.00	37.46
ATOM	7956	CD1	HIS	1164	-3.7736	-32.562	26.201	1.00	36.29
ATOM	7957	ND1	HIS	1164	-3.7736	-32.562	24.305	1.00	36.11
ATOM	7958	CE1	HIS	1164	-3.7736	-32.562	26.321	1.00	34.87
ATOM	7959	NE2	HIS	1164	-3.7736	-32.562	23.837	1.00	34.05

ATOM	7961	HI	1164	-33.1464	-19.3336	38.144	1.00	41.45	
ATOM	7962	HI	1164	-33.130	-18.261	37.948	1.00	42.79	
ATOM	7963	EXT	HIS	1165	-33.119	-29.749	29.244	1.00	42.44
ATOM	7964	HI	FPL	1165	-14.155	-24.323	22.600	1.00	37.46
ATOM	7965	HI	FPL	1165	-14.158	-23.614	21.684	1.00	35.76
ATOM	7966	HI	FPL	1165	-14.175	-24.144	20.719	1.00	36.46
ATOM	7967	HI	FPL	1165	-16.014	-23.142	21.763	1.00	37.77
ATOM	7968	HI	FPL	1165	-16.004	-22.744	23.113	1.00	39.26
ATOM	7969	HI	FPL	1165	-13.790	-22.468	23.959	1.00	34.45
ATOM	7970	O	FPL	1165	-14.027	-21.380	22.384	1.00	34.78
ATOM	7971	O	FPL	1165	-12.993	-22.661	22.059	1.00	32.52
ATOM	7972	HI	FPL	1165	-11.401	-23.120	21.736	1.00	31.93
ATOM	7973	O	FPL	1165	-11.138	-21.651	22.411	1.00	33.43
ATOM	7974	CB	MET	1201	-15.171	-28.638	47.751	1.00	71.61
ATOM	7975	CG	MET	1201	-16.030	-29.117	48.281	1.00	76.04
ATOM	7976	CH	MET	1201	-15.111	-31.115	47.311	1.00	77.55
ATOM	7977	CB	MET	1201	-17.126	-31.914	46.481	1.00	77.07
ATOM	7978	O	MET	1201	-15.160	-29.110	45.210	1.00	71.84
ATOM	7979	O	MET	1201	-13.986	-23.142	45.617	1.00	72.10
ATOM	7980	N	MET	1201	-17.081	-23.514	46.181	1.00	73.80
ATOM	7981	CA	MET	1201	-15.121	-23.111	46.311	1.00	73.03
ATOM	7982	N	LYS	1202	-15.126	-28.605	44.131	1.00	61.18
ATOM	7983	CA	LYS	1202	-14.139	-24.614	42.139	1.00	61.13
ATOM	7984	CB	LYS	1202	-15.123	-31.711	42.139	1.00	61.13
ATOM	7985	CS	LYS	1202	-15.123	-31.477	43.413	1.00	61.08
ATOM	7986	CD	LYS	1202	-14.131	-31.611	43.413	1.00	71.10
ATOM	7987	CE	LYS	1202	-15.181	-33.414	43.139	1.00	79.17
ATOM	7988	NZ	LYS	1202	-15.177	-31.616	40.139	1.00	71.11
ATOM	7989	C	LYS	1202	-14.160	-28.760	41.717	1.00	61.13
ATOM	7990	O	LYS	1202	-15.121	-24.610	40.139	1.00	65.11
ATOM	7991	N	PRO	1203	-13.117	-27.114	41.131	1.00	61.11
ATOM	7992	CD	PRO	1203	-13.177	-26.121	40.816	1.00	61.19
ATOM	7993	CA	PRO	1203	-13.137	-26.111	40.148	1.00	51.11
ATOM	7994	CB	PRO	1203	-12.133	-26.111	40.816	1.00	51.19
ATOM	7995	CG	PRO	1203	-12.131	-26.111	41.131	1.00	51.16
ATOM	7996	C	PRO	1203	-14.131	-26.111	44.131	1.00	51.11
ATOM	7997	O	PRO	1203	-15.131	-26.111	43.131	1.00	51.11
ATOM	7998	N	THR	1204	-13.117	-21.117	41.131	1.00	51.11
ATOM	7999	CA	THR	1204	-14.131	-21.117	40.816	1.00	46.11
ATOM	8000	CB	THR	1204	-14.131	-21.117	41.131	1.00	46.11
ATOM	8001	CG1	THR	1204	-13.117	-21.117	41.131	1.00	46.11
ATOM	8002	CG2	THR	1204	-15.117	-21.117	40.816	1.00	41.19
ATOM	8003	C	THR	1204	-15.131	-21.117	41.131	1.00	46.11
ATOM	8004	O	THR	1204	-14.131	-21.117	44.148	1.00	47.19
ATOM	8005	N	THR	1204	-16.117	-21.117	41.131	1.00	46.11
ATOM	8006	CA	THR	1204	-13.117	-21.117	44.131	1.00	37.11
ATOM	8007	CB	THR	1204	-15.117	-21.117	41.131	1.00	38.11
ATOM	8008	CG1	THR	1204	-18.117	-21.117	41.131	1.00	38.11
ATOM	8009	CG2	THR	1204	-16.117	-21.117	41.131	1.00	39.11
ATOM	8010	C	THR	1204	-15.131	-21.117	41.131	1.00	38.11
ATOM	8011	O	THR	1204	-18.117	-21.117	40.131	1.00	34.11
ATOM	8012	N	ILE	1205	-18.117	-19.117	41.131	1.00	31.11
ATOM	8013	CA	ILE	1205	-19.117	-19.117	41.131	1.00	34.11
ATOM	8014	CB	ILE	1205	-19.117	-19.117	44.131	1.00	34.11
ATOM	8015	CG1	ILE	1205	-20.117	-19.117	44.834	1.00	31.11
ATOM	8016	CG2	ILE	1205	-17.117	-19.117	41.131	1.00	31.11
ATOM	8017	CD1	ILE	1205	-15.117	-19.117	41.131	1.00	31.11
ATOM	8018	C	ILE	1205	-20.117	-19.117	41.131	1.00	31.11
ATOM	8019	O	ILE	1205	-21.117	-19.117	40.131	1.00	31.11
ATOM	8020	N	SER	1206	-20.117	-20.117	44.131	1.00	31.11
ATOM	8021	CA	SER	1206	-22.117	-20.117	44.494	1.00	34.11
ATOM	8022	CB	SER	1206	-22.117	-21.117	44.131	1.00	34.11
ATOM	8023	C	SER	1206	-22.117	-21.117	45.117	1.00	33.11
ATOM	8024	O	SER	1206	-23.117	-21.117	46.119	1.00	34.11
ATOM	8025	N	LEU	1207	-21.117	-21.121	46.119	1.00	32.11
ATOM	8026	CA	LEU	1207	-21.117	-21.119	47.117	1.00	32.11
ATOM	8027	CB	LEU	1207	-19.117	-21.117	47.111	1.00	34.11
ATOM	8028	CG	LEU	1207	-19.117	-24.117	48.119	1.00	35.11
ATOM	8029	CD1	LEU	1207	-18.117	-21.115	48.489	1.00	34.11
ATOM	8030	CD2	LEU	1207	-20.117	-21.117	49.440	1.00	34.11
ATOM	8031	C	LEU	1207	-21.117	-21.117	48.687	1.00	31.11
ATOM	8032	O	LEU	1207	-22.117	-22.117	49.563	1.00	30.11
ATOM	8033	N	LEU	1209	-20.117	-20.117	48.728	1.00	29.11
ATOM	8034	CA	LEU	1209	-21.117	-19.117	49.834	1.00	28.11
ATOM	8035	CB	LEU	1209	-20.117	-18.753	49.772	1.00	25.11
ATOM	8036	CG	LEU	1209	-18.698	-19.117	49.742	1.00	25.41

ATOM	-037	CT1	LYS	1210	-14.969	-19.844	48.744	1.00	23.79
ATOM	-038	CT1	LYS	1210	-16.356	-19.975	50.847	1.00	23.47
ATOM	-039	N	LYS	1210	-22.595	-19.425	49.807	1.00	29.02
ATOM	-040	CA	LYS	1210	-22.107	-19.198	50.844	1.00	29.22
ATOM	-041	N	GLN	1210	-22.126	-19.229	48.598	1.00	29.69
ATOM	-042	CA	GLN	1210	-24.497	-18.761	48.436	1.00	31.68
ATOM	-043	CB	GLN	1210	-24.777	-18.488	46.964	1.00	32.40
ATOM	-044	CG	GLN	1210	-26.138	-18.885	46.638	1.00	33.66
ATOM	-045	CD	GLN	1210	-26.334	-18.511	47.772	1.00	33.08
ATOM	-046	OE1	GLN	1210	-26.877	-18.513	44.116	1.00	33.79
ATOM	-047	NEE	GLN	1210	-26.907	-18.465	46.712	1.00	31.00
ATOM	-048	C	GLN	1210	-25.477	-17.871	43.994	1.00	31.72
ATOM	-049	O	GLN	1210	-26.477	-17.510	43.643	1.00	34.19
ATOM	-050	N	LYS	1211	-25.007	-22.090	43.710	1.00	37.80
ATOM	-051	CA	LYS	1211	-25.893	-22.112	49.147	1.00	37.71
ATOM	-052	CB	LYS	1211	-25.127	-22.570	43.670	1.00	39.41
ATOM	-053	CG	LYS	1211	-25.874	-23.766	49.413	1.00	41.81
ATOM	-054	CD	LYS	1211	-25.471	-23.064	43.717	1.00	41.16
ATOM	-055	CE	LYS	1211	-26.538	-23.814	47.477	1.00	47.80
ATOM	-056	NZ	LYS	1211	-26.078	-23.629	46.849	1.00	49.32
ATOM	-057	C	LYS	1211	-25.187	-22.118	50.775	1.00	38.19
ATOM	-058	O	LYS	1211	-26.671	-22.553	51.474	1.00	37.87
ATOM	-059	N	TYR	1212	-24.677	-21.536	51.334	1.00	37.94
ATOM	-060	CA	TYR	1212	-24.477	-21.773	52.781	1.00	38.14
ATOM	-061	CB	TYR	1212	-23.671	-21.647	53.118	1.00	39.13
ATOM	-062	CG	TYR	1212	-22.161	-21.817	51.276	1.00	41.48
ATOM	-063	CD1	TYR	1212	-20.711	-21.623	51.850	1.00	42.11
ATOM	-064	OE1	TYR	1212	-19.674	-23.688	52.000	1.00	44.10
ATOM	-065	CD2	TYR	1212	-22.537	-24.115	51.897	1.00	42.62
ATOM	-066	CE2	TYR	1212	-21.774	-21.210	52.073	1.00	43.13
ATOM	-067	CZ	TYR	1212	-20.377	-24.987	52.697	1.00	44.87
ATOM	-068	OH	TYR	1212	-19.477	-24.148	51.312	1.00	47.18
ATOM	-069	O	TYR	1212	-25.138	-21.912	51.485	1.00	37.78
ATOM	-070	C	TYR	1212	-25.946	-21.211	53.544	1.00	36.96
ATOM	-071	N	LYS	1213	-25.314	-19.771	51.906	1.00	37.10
ATOM	-072	CA	LYS	1213	-26.347	-19.699	51.916	1.00	37.51
ATOM	-073	CB	LYS	1213	-26.276	-19.887	51.767	1.00	37.04
ATOM	-074	CG	LYS	1213	-25.177	-19.121	51.348	1.00	37.86
ATOM	-075	CD	LYS	1213	-26.777	-19.894	51.331	1.00	37.96
ATOM	-076	CE	LYS	1213	-27.177	-18.847	51.770	1.00	38.17
ATOM	-077	NZ	LYS	1213	-27.126	-19.487	51.404	1.00	38.51
ATOM	-078	C	LYS	1213	-27.177	-19.146	51.991	1.00	38.77
ATOM	-079	O	LYS	1213	-28.471	-18.980	51.931	1.00	39.00
ATOM	-080	N	GLN	1214	-28.331	-19.717	51.763	1.00	40.81
ATOM	-081	CA	GLN	1214	-28.677	-20.120	51.381	1.00	43.81
ATOM	-082	CB	GLN	1214	-30.107	-20.699	51.384	1.00	45.18
ATOM	-083	CG	GLN	1214	-30.117	-19.891	50.627	1.00	48.17
ATOM	-084	CD	GLN	1214	-30.374	-20.197	49.384	1.00	50.17
ATOM	-085	OE1	GLN	1214	-31.634	-20.487	47.761	1.00	51.18
ATOM	-086	NEE	GLN	1214	-29.777	-19.890	47.826	1.00	50.78
ATOM	-087	C	GLN	1214	-29.877	-21.901	51.701	1.00	43.17
ATOM	-088	O	GLN	1214	-30.133	-21.106	51.113	1.00	43.96
ATOM	-089	N	GLU	1215	-27.850	-22.126	51.883	1.00	45.06
ATOM	-090	CA	GLU	1215	-28.191	-22.177	54.673	1.00	45.77
ATOM	-091	CB	GLU	1215	-28.160	-23.447	51.341	1.00	46.90
ATOM	-092	CG	GLU	1215	-28.112	-23.134	52.815	1.00	46.76
ATOM	-093	CD	GLU	1215	-27.177	-23.008	52.172	1.00	47.77
ATOM	-094	OE1	GLU	1215	-28.873	-23.677	52.883	1.00	51.64
ATOM	-095	OE2	GLU	1215	-27.875	-23.100	51.901	1.00	51.34
ATOM	-096	C	GLU	1215	-28.537	-23.733	53.006	1.00	44.76
ATOM	-097	O	GLU	1215	-28.513	-24.141	53.069	1.00	44.78
ATOM	-098	N	LYS	1216	-28.470	-21.437	56.172	1.00	41.76
ATOM	-099	CA	LYS	1216	-28.069	-21.857	57.474	1.00	41.06
ATOM	-100	CB	LYS	1216	-29.212	-21.921	58.442	1.00	43.68
ATOM	-101	CG	LYS	1216	-30.471	-21.177	58.011	1.00	48.00
ATOM	-102	CD	LYS	1216	-30.234	-18.587	58.255	1.00	46.06
ATOM	-103	CE	LYS	1216	-31.475	-17.871	57.914	1.00	50.43
ATOM	-104	NZ	LYS	1216	-32.674	-18.265	58.740	1.00	51.79
ATOM	-105	C	LYS	1216	-26.379	-21.379	58.035	1.00	42.70
ATOM	-106	O	LYS	1216	-26.753	-21.741	59.296	1.00	42.94
ATOM	-107	N	LYS	1217	-25.836	-21.815	57.239	1.00	41.87
ATOM	-108	CA	LYS	1217	-24.613	-22.444	57.693	1.00	39.09
ATOM	-109	CB	LYS	1217	-24.240	-23.667	56.830	1.00	39.34
ATOM	-110	CG	LYS	1217	-25.929	-24.284	57.143	1.00	42.69
ATOM	-111	CD	LYS	1217	-22.622	-25.474	56.250	1.00	45.14
ATOM	-112	CE	LYS	1217	-23.542	-26.651	56.546	1.00	47.62
ATOM	-113	NZ	LYS	1217	-23.209	-27.858	55.706	1.00	43.66

ATOM	1114	C	ARG	1217	-23.477	-11.471	57.646	1.00	36.74
ATOM	1115	C	ARG	1217	-23.357	-11.156	56.573	1.00	37.26
ATOM	1116	N	ARG	1218	-23.058	-21.093	58.912	1.00	33.47
ATOM	1117	CA	ARG	1218	-11.830	-20.069	58.390	1.00	31.52
ATOM	1118	CB	ARG	1218	-11.770	-19.498	60.306	1.00	32.55
ATOM	1119	CG	ARG	1218	-23.884	-18.496	60.603	1.00	31.60
ATOM	1120	CD	ARG	1218	-23.918	-18.619	62.152	1.00	33.28
ATOM	1121	NE	ARG	1218	-23.699	-18.938	62.490	1.00	33.49
ATOM	1122	CE	ARG	1218	-24.649	-18.678	64.145	1.00	32.58
ATOM	1123	NH1	ARG	1218	-23.688	-17.527	64.116	1.00	33.26
ATOM	1124	NH2	ARG	1218	-24.767	-17.554	64.823	1.00	33.35
ATOM	1125	C	ARG	1218	-20.578	-20.777	58.476	1.00	30.31
ATOM	1126	C	ARG	1218	-20.123	-21.797	58.190	1.00	31.64
ATOM	1127	N	ARG	1219	-19.864	-20.112	57.343	1.00	29.09
ATOM	1128	CA	ARG	1219	-18.697	-20.656	57.034	1.00	29.32
ATOM	1129	CB	ARG	1219	-18.701	-20.816	55.713	1.00	28.44
ATOM	1130	CG	ARG	1219	-19.005	-19.527	54.794	1.00	28.44
ATOM	1131	CD1	ARG	1219	-17.975	-18.711	54.743	1.00	28.27
ATOM	1132	CD2	ARG	1219	-20.321	-17.151	54.806	1.00	28.38
ATOM	1133	CE1	ARG	1219	-18.753	-17.495	53.713	1.00	28.07
ATOM	1134	CE2	ARG	1219	-20.612	-17.913	53.963	1.00	28.42
ATOM	1135	CE3	ARG	1219	-18.575	-17.028	53.513	1.00	28.14
ATOM	1136	C	ARG	1219	-17.384	-17.811	55.411	1.00	28.16
ATOM	1137	O	ARG	1219	-17.476	-18.559	55.536	1.00	28.50
ATOM	1138	N	ALA	1220	-16.238	-20.474	57.541	1.00	28.05
ATOM	1139	CA	ALA	1220	-16.992	-18.391	57.908	1.00	27.62
ATOM	1140	CB	ALA	1220	-16.195	-20.631	58.867	1.00	27.86
ATOM	1141	C	ALA	1220	-14.134	-19.430	56.699	1.00	28.64
ATOM	1142	O	ALA	1220	-14.081	-20.187	55.724	1.00	28.16
ATOM	1143	N	THR	1221	-18.462	-18.319	56.773	1.00	28.86
ATOM	1144	CA	THR	1221	-12.593	-17.846	55.700	1.00	28.27
ATOM	1145	CB	THR	1221	-13.248	-16.577	54.950	1.00	28.71
ATOM	1146	CG1	THR	1221	-14.532	-17.084	54.456	1.00	28.31
ATOM	1147	CG2	THR	1221	-13.391	-16.329	53.790	1.00	28.49
ATOM	1148	C	THR	1221	-11.271	-17.393	56.319	1.00	28.19
ATOM	1149	O	THR	1221	-11.235	-17.035	57.115	1.00	18.18
ATOM	1150	N	LEU	1222	-10.152	-17.363	55.152	1.00	28.17
ATOM	1151	CA	LEU	1222	-8.912	-16.835	56.129	1.00	18.10
ATOM	1152	CB	LEU	1222	-8.229	-18.211	56.739	1.00	18.49
ATOM	1153	CG2	LEU	1222	-7.614	-19.123	55.696	1.00	28.16
ATOM	1154	CD1	LEU	1222	-7.184	-17.753	57.794	1.00	28.38
ATOM	1155	CD1	LEU	1222	-6.591	-18.886	58.672	1.00	28.30
ATOM	1156	C	LEU	1222	-7.932	-16.338	55.115	1.00	18.30
ATOM	1157	O	LEU	1222	-8.138	-16.510	53.910	1.00	17.49
ATOM	1158	N	THR	1223	-8.293	-15.321	55.602	1.00	18.12
ATOM	1159	CA	THR	1223	-8.949	-14.956	54.659	1.00	18.12
ATOM	1160	CB	THR	1223	-8.544	-13.596	55.210	1.00	18.60
ATOM	1161	CG1	THR	1223	-8.691	-13.781	56.131	1.00	20.12
ATOM	1162	CG2	THR	1223	-8.313	-12.709	55.623	1.00	28.46
ATOM	1163	C	THR	1223	-4.839	-15.660	54.523	1.00	18.45
ATOM	1164	O	THR	1223	-4.588	-16.719	55.196	1.00	18.75
ATOM	1165	N	ALA	1224	-4.196	-15.821	53.186	1.00	18.57
ATOM	1166	CA	ALA	1224	-4.945	-16.641	53.096	1.00	18.77
ATOM	1167	CB	ALA	1224	-4.434	-17.190	52.551	1.00	18.35
ATOM	1168	C	ALA	1224	-11.181	-15.664	52.095	1.00	18.47
ATOM	1169	O	ALA	1224	-11.734	-15.111	51.147	1.00	18.69
ATOM	1170	N	TYR	1225	-6.884	-16.641	52.215	1.00	13.15
ATOM	1171	CA	TYR	1225	-6.143	-15.941	51.318	1.00	14.62
ATOM	1172	CB	TYR	1225	-6.616	-14.063	52.013	1.00	16.12
ATOM	1173	CG	TYR	1225	-6.361	-13.144	52.918	1.00	16.49
ATOM	1174	CD1	TYR	1225	-6.398	-13.837	54.293	1.00	17.47
ATOM	1175	CD1	TYR	1225	-1.295	-12.961	55.113	1.00	19.14
ATOM	1176	CD2	TYR	1225	-1.350	-12.411	52.383	1.00	16.65
ATOM	1177	CE2	TYR	1225	-2.155	-11.733	53.197	1.00	17.77
ATOM	1178	CE3	TYR	1225	-2.170	-11.981	54.566	1.00	17.92
ATOM	1179	OH	TYR	1225	-3.673	-11.314	55.374	1.00	18.35
ATOM	1180	C	TYR	1225	-1.294	-16.119	50.817	1.00	15.11
ATOM	1181	O	TYR	1225	-2.120	-15.650	50.183	1.00	16.68
ATOM	1182	N	ASP	1226	-1.173	-17.459	51.071	1.00	14.75
ATOM	1183	CA	ASP	1226	-2.251	-18.311	50.629	1.00	14.15
ATOM	1184	CB	ASP	1226	-3.420	-18.781	51.613	1.00	12.62
ATOM	1185	CG	ASP	1226	-3.067	-18.827	52.953	1.00	15.78
ATOM	1186	OD1	ASP	1226	-2.953	-20.064	53.093	1.00	14.85
ATOM	1187	OD2	ASP	1226	-2.912	-18.025	53.933	1.00	15.68
ATOM	1188	C	ASP	1226	-1.771	-19.749	50.435	1.00	14.71
ATOM	1189	O	ASP	1226	-0.672	-20.115	50.864	1.00	13.48
ATOM	1190	N	TYR	1227	-2.604	-20.546	49.783	1.00	13.68

ATOM	2141	CA	TYR	1227	-1.51	-31.544	48.448	1.00	17.77
ATOM	2142	CB	TYR	1227	3.454	-32.525	48.157	1.00	17.73
ATOM	2143	CG	TYR	1227	3.407	-34.036	48.436	1.00	17.63
ATOM	2144	CD1	TYR	1227	3.647	-34.611	47.447	1.00	17.74
ATOM	2145	CD2	TYR	1227	2.574	-35.390	47.834	1.00	18.62
ATOM	2146	CE1	TYR	1227	4.178	-34.864	48.351	1.00	17.93
ATOM	2147	CE2	TYR	1227	4.087	-36.250	48.198	1.00	18.82
ATOM	2148	CE	TYR	1227	3.375	-36.895	48.438	1.00	18.67
ATOM	2149	CH	TYR	1227	3.236	-38.172	48.016	1.00	20.34
ATOM	2200	C	TYR	1227	2.104	-35.026	50.721	1.00	17.61
ATOM	2201	O	TYR	1227	1.163	-35.431	50.770	1.00	17.84
ATOM	2202	N	SER	1228	2.935	-35.677	51.704	1.00	17.14
ATOM	2203	CA	SER	1228	2.932	-37.498	52.915	1.00	17.24
ATOM	2204	CB	SER	1228	4.115	-37.450	53.821	1.00	17.68
ATOM	2205	CG	SER	1228	5.330	-37.636	53.206	1.00	21.49
ATOM	2206	CD	SER	1228	3.637	-38.102	53.704	1.00	18.77
ATOM	2207	O	SER	1228	1.562	-38.125	53.889	1.00	17.76
ATOM	2208	N	PHE	1229	1.233	-21.194	54.370	1.00	17.16
ATOM	2209	CA	PHE	1229	-0.001	-21.054	54.822	1.00	18.83
ATOM	2210	CB	PHE	1229	-0.199	-22.963	55.456	1.00	17.59
ATOM	2211	CG	PHE	1229	0.713	-22.321	55.714	1.00	17.48
ATOM	2212	CD1	PHE	1229	1.969	-18.627	56.630	1.00	18.59
ATOM	2213	CD2	PHE	1229	0.239	-21.941	57.316	1.00	20.98
ATOM	2214	CE1	PHE	1229	2.734	-18.152	57.814	1.00	18.23
ATOM	2215	CE2	PHE	1229	1.600	-20.074	59.075	1.00	21.94
ATOM	2216	C7	PHE	1229	2.267	-20.078	59.033	1.00	20.88
ATOM	2217	C	PHE	1229	-1.236	-21.052	53.955	1.00	18.51
ATOM	2218	O	PHE	1229	-2.116	-22.929	54.452	1.00	18.61
ATOM	2219	N	ALA	1230	-1.118	-21.972	52.691	1.00	19.96
ATOM	2220	CA	ALA	1230	-2.340	-21.147	51.822	1.00	18.17
ATOM	2221	CB	ALA	1230	-2.113	-21.854	50.405	1.00	18.08
ATOM	2222	C	ALA	1230	-2.376	-21.755	51.723	1.00	18.32
ATOM	2223	O	ALA	1230	-3.771	-23.216	51.797	1.00	17.17
ATOM	2224	N	LYS	1231	-1.430	-24.518	51.600	1.00	17.81
ATOM	2225	CA	LYS	1231	-1.577	-25.991	51.493	1.00	18.56
ATOM	2226	CB	LYS	1231	-0.116	-26.546	51.291	1.00	18.61
ATOM	2227	CG	LYS	1231	-0.110	-28.673	51.122	1.00	20.84
ATOM	2228	CD	LYS	1231	-0.869	-28.632	49.940	1.00	20.01
ATOM	2229	CE	LYS	1231	-0.454	-30.086	49.634	1.00	31.79
ATOM	2230	N7	LYS	1231	-0.862	-30.058	50.706	1.00	30.95
ATOM	2231	C	LYS	1231	-2.117	-30.564	52.789	1.00	17.93
ATOM	2232	O	LYS	1231	-2.950	-28.445	52.767	1.00	18.83
ATOM	2233	N	LEU	1232	-1.616	-26.072	53.916	1.00	18.47
ATOM	2234	CA	LEU	1232	-2.007	-26.557	55.219	1.00	18.49
ATOM	2235	CB	LEU	1232	-1.265	-25.861	56.324	1.00	20.13
ATOM	2236	CG	LEU	1232	-1.434	-26.366	57.158	1.00	20.23
ATOM	2237	CD1	LEU	1232	-0.233	-26.105	58.181	1.00	20.74
ATOM	2238	CD2	LEU	1232	-2.670	-23.670	58.358	1.00	20.61
ATOM	2239	C	LEU	1232	-3.500	-26.319	55.594	1.00	18.83
ATOM	2240	O	LEU	1232	-4.311	-27.027	55.177	1.00	18.78
ATOM	2241	N	PHE	1213	-4.015	-25.102	55.695	1.00	18.10
ATOM	2242	CA	PHE	1213	-5.430	-24.375	53.122	1.00	20.73
ATOM	2243	CB	PHE	1213	-5.771	-23.309	54.243	1.00	18.29
ATOM	2244	CG	PHE	1213	-4.907	-22.306	55.880	1.00	17.77
ATOM	2245	CD1	PHE	1213	-4.608	-22.581	56.396	1.00	18.49
ATOM	2246	CD2	PHE	1213	-4.618	-22.661	57.156	1.00	17.61
ATOM	2247	CE1	PHE	1213	-3.940	-21.683	57.169	1.00	17.42
ATOM	2248	CE2	PHE	1213	-3.991	-20.117	55.926	1.00	17.70
ATOM	2249	C2	PHE	1213	-3.618	-20.413	55.127	1.00	17.50
ATOM	2250	C	PHE	1213	-6.208	-21.656	54.316	1.00	21.36
ATOM	2251	O	PHE	1213	-7.209	-26.215	54.711	1.00	21.69
ATOM	2252	N	ALA	1234	-5.819	-25.840	55.084	1.00	21.60
ATOM	2253	CA	ALA	1234	-6.601	-26.659	52.147	1.00	21.61
ATOM	2254	CB	ALA	1234	-5.900	-26.612	50.558	1.00	21.86
ATOM	2255	C	ALA	1234	-6.709	-28.133	52.612	1.00	21.65
ATOM	2256	O	ALA	1234	-7.719	-28.558	52.460	1.00	19.72
ATOM	2257	N	ASP	1235	-5.634	-28.655	53.179	1.00	23.15
ATOM	2258	CA	ASP	1235	-5.674	-30.061	53.646	1.00	26.64
ATOM	2259	CB	ASP	1235	-4.204	-30.517	53.913	1.00	26.19
ATOM	2260	CG	ASP	1235	-3.330	-30.562	52.767	1.00	30.30
ATOM	2261	OD1	ASP	1235	-3.756	-30.941	51.657	1.00	29.31
ATOM	2262	OD2	ASP	1235	-2.155	-30.185	52.941	1.00	30.67
ATOM	2263	C	ASP	1235	-6.561	-30.216	54.884	1.00	25.67
ATOM	2264	O	ASP	1235	-6.896	-31.333	55.275	1.00	27.41
ATOM	2265	N	GLU	1236	-6.935	-29.098	55.500	1.00	26.80
ATOM	2266	CA	GLU	1236	-7.779	-29.131	56.693	1.00	28.17
ATOM	2267	CB	GLU	1236	-7.236	-28.167	57.749	1.00	28.31

ATOM	8276	C	GLU	1234	-11.809	-28.569	58.721	1.00	27.42
ATOM	8276	CD	GLU	1234	-11.817	-28.567	58.721	1.00	27.42
ATOM	8276	CE1	GLU	1234	-11.871	-28.157	58.729	1.00	27.10
ATOM	8276	CE2	GLU	1234	-11.666	-28.747	58.587	1.00	28.13
ATOM	8276	C	GLU	1234	-11.447	-28.805	58.407	1.00	27.14
ATOM	8276	CG	GLU	1234	-10.409	-28.959	58.237	1.00	26.75
ATOM	8276	CD	GLU	1234	-10.511	-28.849	58.114	1.00	26.66
ATOM	8276	CE1	GLU	1234	-11.406	-28.631	58.863	1.00	28.48
ATOM	8276	C	GLU	1234	-11.167	-28.570	58.587	1.00	27.03
ATOM	8276	CG	GLU	1234	-12.165	-28.243	58.937	1.00	28.59
ATOM	8276	CD	GLU	1234	-10.286	-28.644	58.033	1.00	26.88
ATOM	8276	CE1	GLU	1234	-10.444	-28.277	58.771	1.00	27.65
ATOM	8280	CB	LEU	1234	-14.431	-21.431	58.568	1.00	23.60
ATOM	8280	CD	LEU	1234	-10.946	-21.832	58.866	1.00	23.99
ATOM	8280	CE1	LEU	1234	-10.833	-21.631	58.548	1.00	23.17
ATOM	8280	CE2	LEU	1234	-11.130	-21.918	58.559	1.00	23.61
ATOM	8284	C	LEU	1234	-10.235	-21.031	58.283	1.00	22.94
ATOM	8285	O	LEU	1234	-9.089	-21.911	58.333	1.00	23.32
ATOM	8286	N	ASN	1234	-11.313	-21.911	58.523	1.00	24.94
ATOM	8287	CA	ASN	1234	-11.809	-21.731	58.086	1.00	24.45
ATOM	8287	CB	ASN	1234	-11.653	-24.801	58.369	1.00	26.67
ATOM	8287	CG	ASN	1234	-11.833	-24.211	58.844	1.00	29.98
ATOM	8290	OD1	ASN	1234	-10.691	-26.661	58.903	1.00	31.35
ATOM	8291	ND2	ASN	1234	-12.905	-26.924	58.188	1.00	33.26
ATOM	8292	C	ASN	1234	-11.527	-21.311	58.573	1.00	22.39
ATOM	8293	O	ASN	1234	-11.763	-21.201	49.332	1.00	24.59
ATOM	8294	N	VAL	1240	-11.548	-21.430	58.475	1.00	21.31
ATOM	8295	CA	VAL	1240	-11.804	-21.039	58.036	1.00	19.30
ATOM	8296	CB	VAL	1240	-13.137	-18.519	58.629	1.00	20.14
ATOM	8297	CG1	VAL	1240	-13.355	-18.098	58.141	1.00	18.37
ATOM	8298	CG2	VAL	1240	-14.263	-20.413	58.176	1.00	17.75
ATOM	8299	C	VAL	1240	-10.691	-18.190	58.653	1.00	19.41
ATOM	8300	O	VAL	1240	-10.651	-18.960	52.858	1.00	18.98
ATOM	8301	N	MET	1241	-9.811	-18.719	50.788	1.00	18.30
ATOM	8302	CA	MET	1241	-8.677	-18.922	51.710	1.00	17.07
ATOM	8302	CB	MET	1241	-7.383	-18.672	50.937	1.00	17.64
ATOM	8304	CG	MET	1241	-7.203	-18.901	51.750	1.00	18.24
ATOM	8305	CD	MET	1241	-5.840	-20.903	51.257	1.00	18.35
ATOM	8306	CE	MET	1241	-6.611	-20.513	51.022	1.00	18.09
ATOM	8307	C	MET	1241	-7.622	-18.583	50.821	1.00	18.92
ATOM	8308	O	MET	1241	-8.337	-18.468	49.348	1.00	17.62
ATOM	8309	N	LEU	1242	-8.171	-18.571	51.249	1.00	18.38
ATOM	8310	CA	LEU	1242	-8.067	-14.235	50.694	1.00	17.97
ATOM	8311	CB	LEU	1242	-9.959	-18.276	51.301	1.00	19.81
ATOM	8312	CG	LEU	1242	-9.947	-11.757	51.253	1.00	23.91
ATOM	8313	CD1	LEU	1242	-9.919	-11.072	51.987	1.00	25.91
ATOM	8314	CD2	LEU	1242	-9.038	-11.402	49.370	1.00	21.85
ATOM	8315	C	LEU	1242	-6.623	-18.759	50.680	1.00	18.01
ATOM	8316	O	LEU	1242	-5.911	-18.860	51.879	1.00	14.43
ATOM	8317	N	VAL	1243	-6.201	-18.259	49.539	1.00	18.58
ATOM	8318	CA	VAL	1243	-4.859	-18.724	49.381	1.00	18.62
ATOM	8319	CB	VAL	1243	-4.253	-18.152	48.047	1.00	18.84
ATOM	8320	CG	VAL	1243	-3.801	-18.644	47.934	1.00	18.94
ATOM	8321	CD	VAL	1243	-4.274	-14.683	47.051	1.00	17.01
ATOM	8322	C	VAL	1243	-5.080	-11.217	49.431	1.00	18.28
ATOM	8323	O	VAL	1243	-5.521	-11.570	48.531	1.00	14.94
ATOM	8324	N	GLY	1244	-5.083	-18.662	50.632	1.00	18.14
ATOM	8325	CA	GLY	1244	-5.351	-8.244	50.781	1.00	18.27
ATOM	8326	C	GLY	1244	-4.156	-8.347	50.991	1.00	18.28
ATOM	8327	O	GLY	1244	-3.063	-8.815	51.366	1.00	14.05
ATOM	8328	N	ASP	1245	-4.366	-7.046	50.778	1.00	17.20
ATOM	8329	CA	ASP	1245	-3.276	-6.103	50.935	1.00	17.71
ATOM	8330	CB	ASP	1245	-3.620	-4.728	50.769	1.00	17.04
ATOM	8331	CG	ASP	1245	-4.889	-4.123	50.932	1.00	16.66
ATOM	8332	OD1	ASP	1245	-5.415	-4.640	51.931	1.00	16.51
ATOM	8333	OD2	ASP	1245	-5.338	-	50.384	1.00	16.00
ATOM	8334	C	ASP	1245	-2.837	-5.978	52.404	1.00	16.69
ATOM	8335	O	ASP	1245	-1.944	-5.262	52.715	1.00	16.52
ATOM	8336	N	SER	1246	-3.451	-6.776	53.291	1.00	16.51
ATOM	8337	CA	SER	1246	-3.050	-6.722	54.685	1.00	18.38
ATOM	8338	CB	SER	1246	-3.963	-5.606	55.559	1.00	18.12
ATOM	8339	CG	SER	1246	-4.087	-8.920	55.304	1.00	20.35
ATOM	8340	C	SER	1246	-1.617	-7.262	54.687	1.00	17.95
ATOM	8341	O	SER	1246	-0.865	-7.062	55.642	1.00	18.43
ATOM	8342	N	LEU	1247	-1.254	-7.943	53.606	1.00	17.78
ATOM	8343	CA	LEU	1247	-0.131	-8.475	53.503	1.00	17.35
ATOM	8344	CB	LEU	1247	0.302	-9.318	52.325	1.00	16.01

ATOM	8345	CA	LEU	1245	0.100	-0.045	50.814	1.00	14.51
ATOM	8346	CG1	LEU	1245	1.101	-0.082	51.524	1.00	14.50
ATOM	8347	CD	LEU	1245	-0.115	0.088	49.777	1.00	14.46
ATOM	8348	C	LEU	1245	1.144	0.073	53.521	1.00	15.76
ATOM	8349	N	LEU	1245	1.130	-0.020	53.792	1.00	14.98
ATOM	8350	N	GLY	1248	0.080	-0.010	53.012	1.00	13.55
ATOM	8351	CA	GLY	1248	1.084	0.008	53.122	1.00	13.87
ATOM	8352	C	GLY	1248	0.110	-0.063	54.624	1.00	15.47
ATOM	8353	O	GLY	1248	-0.020	-0.161	54.820	1.00	16.88
ATOM	8354	N	MET	1249	1.125	-0.062	55.608	1.00	14.33
ATOM	8355	CA	MET	1249	1.019	-0.005	56.946	1.00	16.01
ATOM	8356	CB	MET	1249	-0.517	-0.002	57.330	1.00	19.47
ATOM	8357	CG	MET	1249	0.018	-0.114	57.330	1.00	21.69
ATOM	8358	SD	MET	1249	-0.000	-0.066	58.000	1.00	16.00
ATOM	8359	SE	MET	1249	-0.065	-0.081	59.000	1.00	20.35
ATOM	8360	C	MET	1249	0.180	-0.049	59.000	1.00	16.59
ATOM	8361	O	MET	1249	0.417	-0.005	59.000	1.00	14.81
ATOM	8362	N	THR	1250	1.020	-0.059	59.000	1.00	14.12
ATOM	8363	CA	THR	1250	1.004	-0.006	59.100	1.00	18.00
ATOM	8364	CB	THR	1250	0.000	-0.000	59.100	1.00	19.83
ATOM	8365	CG1	THR	1250	1.000	-10.000	59.000	1.00	25.56
ATOM	8366	CG2	THR	1250	0.000	-10.000	59.000	1.00	21.14
ATOM	8367	C	THR	1250	0.000	-0.000	59.000	1.00	16.42
ATOM	8368	O	THR	1250	0.000	-10.000	59.000	1.00	17.25
ATOM	8369	N	VAL	1251	0.000	-0.000	59.000	1.00	14.38
ATOM	8370	CA	VAL	1251	0.000	-0.000	59.000	1.00	14.53
ATOM	8371	CB	VAL	1251	0.000	-10.000	59.000	1.00	15.45
ATOM	8372	CG1	VAL	1251	0.000	-10.000	59.000	1.00	12.75
ATOM	8373	CG2	VAL	1251	0.000	-10.000	59.000	1.00	15.09
ATOM	8374	C	VAL	1251	0.000	-0.000	59.000	1.00	14.56
ATOM	8375	O	VAL	1251	0.000	-0.000	59.000	1.00	16.60
ATOM	8376	N	GLN	1252	0.000	-0.000	59.000	1.00	11.43
ATOM	8377	CA	GLN	1252	0.000	-0.000	59.000	1.00	13.81
ATOM	8378	CB	GLN	1252	0.000	-0.000	59.000	1.00	14.06
ATOM	8379	CG	GLN	1252	0.000	-0.000	59.000	1.00	15.86
ATOM	8380	CD	GLN	1252	0.000	-0.000	59.000	1.00	14.76
ATOM	8381	CE1	GLN	1252	0.000	-0.000	59.000	1.00	14.09
ATOM	8382	CE2	GLN	1252	0.000	-0.000	59.000	1.00	12.71
ATOM	8383	C	GLN	1252	0.000	-0.000	59.000	1.00	13.83
ATOM	8384	O	GLN	1252	0.000	-0.000	59.000	1.00	15.54
ATOM	8385	N	GLY	1253	0.000	-0.000	59.000	1.00	15.09
ATOM	8386	CA	GLY	1253	0.000	-0.000	59.000	1.00	15.66
ATOM	8387	C	GLY	1253	0.000	-0.000	59.000	1.00	17.26
ATOM	8388	O	GLY	1253	0.000	-0.000	59.000	1.00	18.18
ATOM	8389	N	ASP	1254	0.000	-0.000	59.000	1.00	17.51
ATOM	8390	CA	ASP	1254	0.000	-0.000	59.000	1.00	18.76
ATOM	8391	CB	ASP	1254	0.000	-0.000	59.000	1.00	19.45
ATOM	8392	CG	ASP	1254	0.000	-0.000	59.000	1.00	19.97
ATOM	8393	CD	ASP	1254	0.000	-0.000	59.000	1.00	19.39
ATOM	8394	CE1	ASP	1254	0.000	-0.000	59.000	1.00	18.30
ATOM	8395	CE2	ASP	1254	0.000	-0.000	59.000	1.00	21.60
ATOM	8396	C	ASP	1254	0.000	-0.000	59.000	1.00	18.59
ATOM	8397	O	ASP	1254	0.000	-0.000	59.000	1.00	19.51
ATOM	8398	N	ASP	1254	0.000	-0.000	59.000	1.00	19.71
ATOM	8399	CA	ASP	1255	0.000	-0.000	59.000	1.00	24.34
ATOM	8400	CB	ASP	1255	0.000	-0.000	59.000	1.00	27.60
ATOM	8401	CG	ASP	1255	0.000	-0.000	59.000	1.00	29.81
ATOM	8402	CD	ASP	1255	0.000	-0.000	59.000	1.00	33.96
ATOM	8403	CE1	ASP	1255	0.000	-0.000	59.000	1.00	37.20
ATOM	8404	C	ASP	1255	0.000	-0.000	59.000	1.00	21.29
ATOM	8405	O	ASP	1255	0.000	-0.000	59.000	1.00	21.48
ATOM	8406	N	SER	1256	0.000	-0.000	59.000	1.00	19.07
ATOM	8407	CA	SER	1256	-0.000	-0.000	59.000	1.00	16.19
ATOM	8408	CB	SER	1256	-0.000	-0.000	59.000	1.00	14.13
ATOM	8409	CG	SER	1256	-0.000	-0.000	59.000	1.00	13.20
ATOM	8410	O	SER	1256	-0.000	-0.000	59.000	1.00	16.09
ATOM	8411	C	SER	1256	-0.000	-0.000	59.000	1.00	16.64
ATOM	8412	N	THR	1257	-0.000	-0.000	59.000	1.00	15.54
ATOM	8413	CA	THR	1257	-0.000	-0.000	59.000	1.00	13.85
ATOM	8414	CB	THR	1257	-0.000	-0.000	59.000	1.00	14.68
ATOM	8415	CG1	THR	1257	-0.000	-0.000	59.000	1.00	13.16
ATOM	8416	CG2	THR	1257	-0.000	-0.000	59.000	1.00	14.28
ATOM	8417	C	THR	1257	-0.000	-0.000	59.000	1.00	14.73
ATOM	8418	O	THR	1257	-0.000	-0.000	59.000	1.00	14.37
ATOM	8419	N	LEU	1258	-0.000	-0.000	59.000	1.00	11.56
ATOM	8420	CA	LEU	1258	-0.000	-0.000	59.000	1.00	14.60

ATOM	441	CP	LEU	1257	-1.410	-1.411	51.151	1.00	14.78
ATOM	442	CP	LEU	1258	-1.410	-1.409	51.147	1.00	14.81
ATOM	443	CH	LEU	1259	-1.407	-1.193	51.149	1.00	18.31
ATOM	444	CH	LEU	1259	-1.410	-1.111	51.151	1.00	17.45
ATOM	445	C	LEU	1259	-1.409	-1.111	49.174	1.00	14.86
ATOM	446	CH	LEU	1259	-1.409	-1.148	49.155	1.00	14.19
ATOM	447	N	LEU	1259	-1.410	-1.148	50.119	1.00	16.27
ATOM	448	CP	PRO	1259	-1.410	-1.817	51.136	1.00	14.93
ATOM	449	CA	PRO	1259	-1.409	-0.148	49.163	1.00	14.34
ATOM	451	CH	PRO	1259	-1.421	-0.172	50.144	1.00	17.87
ATOM	452	CH	PRO	1259	-1.409	-0.176	51.130	1.00	22.73
ATOM	453	C	PRO	1259	-1.409	-0.177	49.173	1.00	13.89
ATOM	454	O	PRO	1259	-1.408	-1.110	47.179	1.00	11.25
ATOM	455	N	VAL	1260	-1.451	-1.649	49.001	1.00	18.02
ATOM	456	CA	VAL	1260	-1.001	-2.142	43.130	1.00	17.65
ATOM	457	CH	VAL	1260	-1.001	-1.135	49.181	1.00	17.45
ATOM	458	CH	VAL	1260	-0.999	-5.017	49.152	1.00	11.57
ATOM	459	CH	VAL	1260	-1.401	-4.135	50.154	1.00	9.00
ATOM	460	C	VAL	1260	-0.959	-2.141	46.892	1.00	12.91
ATOM	461	O	VAL	1260	-0.951	-1.144	46.873	1.00	12.39
ATOM	462	N	THR	1261	-1.425	-1.111	45.981	1.00	14.02
ATOM	463	CA	THR	1261	-1.010	-3.160	44.119	1.00	13.63
ATOM	464	CH	THR	1261	-1.409	-2.116	43.114	1.00	18.67
ATOM	465	CH	THR	1261	-1.407	-1.149	44.137	1.00	18.95
ATOM	466	CH	THR	1261	-2.010	-2.110	42.185	1.00	22.02
ATOM	467	C	THR	1261	-0.968	-4.135	43.910	1.00	12.64
ATOM	468	O	THR	1261	-0.115	-5.159	44.133	1.00	11.51
ATOM	469	N	VAL	1262	-0.197	-4.113	42.697	1.00	10.72
ATOM	470	CA	VAL	1262	-0.908	-5.111	42.017	1.00	11.42
ATOM	471	CH	VAL	1262	-1.484	-4.132	40.655	1.00	10.61
ATOM	472	CH	VAL	1262	-2.069	-5.132	39.875	1.00	10.47
ATOM	473	CH	VAL	1262	-2.576	-3.131	40.916	1.00	10.70
ATOM	474	C	VAL	1262	-0.068	-6.139	41.790	1.00	11.29
ATOM	475	O	VAL	1262	-0.310	-7.111	41.891	1.00	11.57
ATOM	476	N	ALA	1263	-1.324	-6.066	41.497	1.00	12.19
ATOM	477	CA	ALA	1263	-1.329	-7.111	41.275	1.00	11.44
ATOM	478	CH	ALA	1263	-1.673	-6.149	40.841	1.00	11.75
ATOM	479	C	ALA	1263	-1.511	-7.111	40.516	1.00	11.93
ATOM	480	O	ALA	1263	-1.714	-9.066	40.565	1.00	10.47
ATOM	481	N	ASP	1264	-1.409	-7.111	43.703	1.00	9.71
ATOM	482	CA	ASP	1264	-1.648	-7.111	44.981	1.00	12.19
ATOM	483	CH	ASP	1264	-2.646	-6.116	46.177	1.00	12.97
ATOM	484	CH	ASP	1264	-3.782	-5.111	46.135	1.00	15.35
ATOM	485	CH	ASP	1264	-4.833	-6.116	45.146	1.00	13.99
ATOM	486	CH	ASP	1264	-3.659	-4.116	46.711	1.00	12.70
ATOM	487	C	ASP	1264	-1.498	-8.113	45.157	1.00	11.29
ATOM	488	O	ASP	1264	-1.709	-10.116	45.488	1.00	12.23
ATOM	489	N	ILE	1265	-0.279	-8.116	44.920	1.00	10.36
ATOM	490	CA	ILE	1265	-0.986	-9.116	45.053	1.00	9.25
ATOM	491	CH	ILE	1265	-2.194	-8.116	44.711	1.00	8.35
ATOM	492	CH	ILE	1265	-3.181	-9.116	44.721	1.00	10.30
ATOM	493	CH	ILE	1265	-2.146	-7.113	41.767	1.00	13.86
ATOM	494	CH	ILE	1265	-2.111	-9.116	47.166	1.00	13.04
ATOM	495	C	ILE	1265	-0.982	-10.116	44.125	1.00	10.11
ATOM	496	O	ILE	1265	-1.166	-11.116	44.136	1.00	10.74
ATOM	497	N	ALA	1266	-0.875	-10.116	41.873	1.00	11.37
ATOM	498	CA	ALA	1266	-0.119	-11.116	41.915	1.00	10.87
ATOM	499	CH	ALA	1266	-0.005	-10.116	40.511	1.00	10.92
ATOM	500	C	ALA	1266	-0.861	-12.116	42.255	1.00	10.56
ATOM	501	O	ALA	1266	-0.655	-13.116	42.048	1.00	10.01
ATOM	502	N	TYR	1267	-1.882	-11.919	41.905	1.00	9.93
ATOM	503	CA	TYR	1267	-2.978	-12.919	41.560	1.00	8.50
ATOM	504	CH	TYR	1267	-4.122	-11.919	41.911	1.00	9.28
ATOM	505	CH	TYR	1267	-5.216	-12.919	44.598	1.00	9.52
ATOM	506	CH	TYR	1267	-6.098	-13.419	45.879	1.00	11.95
ATOM	507	CH	TYR	1267	-7.142	-14.119	44.509	1.00	12.07
ATOM	508	CH	TYR	1267	-5.456	-12.919	45.992	1.00	12.37
ATOM	509	CH	TYR	1267	-6.475	-13.219	46.615	1.00	12.84
ATOM	510	CH	TYR	1267	-7.521	-14.019	45.875	1.00	14.28
ATOM	511	CH	TYR	1267	-8.565	-14.691	46.510	1.00	13.09
ATOM	512	C	TYR	1267	-2.461	-13.731	44.441	1.00	9.24
ATOM	513	O	TYR	1267	-2.636	-14.960	44.368	1.00	7.23
ATOM	514	N	HIS	1268	-1.808	-13.161	45.448	1.00	10.07
ATOM	515	CA	HIS	1268	-1.277	-13.968	46.549	1.00	11.40
ATOM	516	CH	HIS	1268	-0.899	-13.042	47.717	1.00	10.91
ATOM	517	CH	HIS	1268	-2.093	-12.471	46.425	1.00	10.67
ATOM	518	CH	HIS	1268	-2.720	-11.277	48.299	1.00	12.54

ATOM	8507	NH1	HIS	1268	-1.787	-17.111	43.217	1.00	11.88
ATOM	8508	CH1	HIS	1268	-1.596	-15.346	43.894	1.00	12.47
ATOM	8509	NE2	HIS	1268	-1.941	-11.331	42.595	1.00	11.58
ATOM	8510	C	HIS	1268	-1.779	-14.836	46.596	1.00	12.09
ATOM	8511	C	HIS	1268	-0.164	-15.943	47.610	1.00	16.75
ATOM	8512	N	THR	1269	-1.775	-14.131	45.117	1.00	11.59
ATOM	8513	CA	THR	1269	-1.754	-15.584	44.591	1.00	11.48
ATOM	8514	CB	THR	1269	-0.119	-14.134	43.681	1.00	11.59
ATOM	8515	CG1	THR	1269	-3.115	-13.119	44.319	1.00	12.48
ATOM	8516	CG2	THR	1269	-3.651	-15.139	42.884	1.00	13.07
ATOM	8517	C	THR	1269	-1.349	-16.186	43.939	1.00	10.67
ATOM	8518	O	THR	1269	-1.928	-17.443	44.119	1.00	13.58
ATOM	8519	N	ALA	1270	-0.392	-16.541	43.678	1.00	8.94
ATOM	8520	CA	ALA	1270	-0.208	-17.478	42.411	1.00	10.29
ATOM	8521	CB	ALA	1270	-1.376	-17.076	41.465	1.00	11.72
ATOM	8522	C	ALA	1270	-0.737	-18.492	43.437	1.00	12.86
ATOM	8523	O	ALA	1270	-0.531	-19.561	43.863	1.00	12.02
ATOM	8524	N	ALA	1271	-1.578	-17.983	44.395	1.00	11.07
ATOM	8525	CA	ALA	1271	-1.924	-18.573	45.534	1.00	11.19
ATOM	8526	CB	ALA	1271	-0.733	-18.084	46.541	1.00	10.42
ATOM	8527	C	ALA	1271	-0.919	-19.541	46.351	1.00	11.93
ATOM	8528	O	ALA	1271	-0.210	-20.643	46.458	1.00	9.16
ATOM	8529	N	VAL	1272	-0.238	-18.922	46.645	1.00	12.77
ATOM	8530	CA	VAL	1272	-1.358	-19.523	47.331	1.00	12.55
ATOM	8531	CB	VAL	1272	-2.338	-18.435	47.812	1.00	10.99
ATOM	8532	CG1	VAL	1272	-3.613	-19.662	48.365	1.00	13.11
ATOM	8533	CG2	VAL	1272	-1.660	-17.597	48.193	1.00	10.82
ATOM	8534	C	VAL	1272	-2.063	-20.535	46.436	1.00	12.93
ATOM	8535	O	VAL	1272	-2.441	-21.624	46.482	1.00	13.32
ATOM	8536	N	ARG	1273	-2.228	-20.191	45.163	1.00	12.36
ATOM	8537	CA	ARG	1273	-2.863	-21.109	44.136	1.00	13.82
ATOM	8538	CB	ARG	1273	-3.053	-20.457	43.562	1.00	13.85
ATOM	8539	CG	ARG	1273	-3.681	-21.581	43.117	1.00	15.25
ATOM	8540	CD	ARG	1273	-5.033	-21.909	43.166	1.00	15.44
ATOM	8541	NE	ARG	1273	-6.101	-20.913	43.171	1.00	15.46
ATOM	8542	CZ	ARG	1273	-7.732	-21.660	42.542	1.00	16.08
ATOM	8543	NH1	ARG	1273	-3.553	-22.111	43.454	1.00	14.02
ATOM	8544	NH2	ARG	1273	-8.213	-20.110	41.192	1.00	14.57
ATOM	8545	C	ARG	1273	-0.193	-22.519	44.388	1.00	14.78
ATOM	8546	O	ARG	1273	-3.711	-23.466	43.833	1.00	15.68
ATOM	8547	N	PRO	1274	-0.777	-22.137	43.123	1.00	13.54
ATOM	8548	CA	PRO	1274	-2.633	-23.542	44.605	1.00	15.45
ATOM	8549	CB	PRO	1274	-1.518	-23.195	43.549	1.00	14.07
ATOM	8550	CG	PRO	1274	-1.922	-22.195	42.723	1.00	17.35
ATOM	8551	CD	PRO	1274	-3.431	-22.583	40.532	1.00	16.78
ATOM	8552	DE	PRO	1274	-3.790	-21.497	41.435	1.00	20.34
ATOM	8553	CE	PRO	1274	-4.065	-20.293	41.575	1.00	20.54
ATOM	8554	NH1	ARG	1274	-4.039	-19.634	40.772	1.00	18.45
ATOM	8555	NH2	ARG	1274	-4.341	-19.466	40.502	1.00	23.65
ATOM	8556	C	PRO	1274	-0.223	-24.468	43.195	1.00	16.25
ATOM	8557	O	ARG	1274	-0.215	-25.683	43.641	1.00	16.53
ATOM	8558	N	GLN	1275	-0.420	-23.872	46.353	1.00	15.04
ATOM	8559	CA	GLN	1275	-0.827	-24.653	43.554	1.00	16.35
ATOM	8560	C	GLN	1275	-2.165	-25.178	43.681	1.00	17.99
ATOM	8561	O	GLN	1275	-2.397	-26.137	43.338	1.00	17.88
ATOM	8562	N	ALA	1276	-3.347	-24.441	43.677	1.00	15.42
ATOM	8563	CA	ALA	1276	-4.497	-24.747	43.141	1.00	15.78
ATOM	8564	CB	ALA	1276	-5.158	-23.331	43.179	1.00	12.41
ATOM	8565	C	ALA	1276	-5.122	-24.625	43.170	1.00	18.03
ATOM	8566	O	ALA	1276	-5.898	-23.690	43.546	1.00	17.23
ATOM	8567	N	PRO	1277	-4.843	-25.510	44.541	1.00	19.05
ATOM	8568	CD	PRO	1277	-4.009	-26.711	43.329	1.00	21.51
ATOM	8569	CA	PRO	1277	-5.401	-25.557	43.486	1.00	20.89
ATOM	8570	CB	PRO	1277	-4.691	-26.645	42.784	1.00	21.57
ATOM	8571	CG	PRO	1277	-4.452	-27.631	43.890	1.00	23.97
ATOM	8572	O	PRO	1277	-6.922	-25.574	43.540	1.00	21.51
ATOM	8573	O	PRO	1277	-7.458	-25.173	42.596	1.00	21.21
ATOM	8574	N	ASN	1278	-7.615	-26.019	44.571	1.00	20.14
ATOM	8575	CA	ASN	1278	-9.065	-26.171	44.297	1.00	21.69
ATOM	8576	CB	ASN	1278	-9.483	-27.622	44.567	1.00	25.65
ATOM	8577	CC	ASN	1278	-8.830	-28.600	43.610	1.00	26.75
ATOM	8578	OD1	ASN	1278	-8.921	-28.446	42.393	1.00	30.57
ATOM	8579	NH2	ASN	1278	-8.172	-29.612	44.154	1.00	29.13
ATOM	8580	C	ASN	1278	-9.823	-25.245	45.235	1.00	21.44
ATOM	8581	O	ASN	1278	-11.042	-25.346	45.364	1.00	20.63
ATOM	8582	N	CYS	1279	-9.111	-24.332	45.884	1.00	19.87
ATOM	8583	CA	CYS	1279	-9.767	-23.408	46.804	1.00	19.78

ATOM	6577	CB	LEU	1279	-10.440	-11.831	44.784	1.00	17.88
ATOM	6578	CB	LEU	1279	-11.736	-11.843	44.143	1.00	17.87
ATOM	6579	C	LYS	1279	-10.481	-11.131	46.855	1.00	18.63
ATOM	6580	O	LYS	1279	-10.106	-11.281	44.981	1.00	18.42
ATOM	6581	N	LEU	1280	-11.784	-11.530	46.738	1.00	18.34
ATOM	6582	CA	LEU	1280	-11.024	-10.829	46.117	1.00	17.84
ATOM	6583	CB	LEU	1280	-13.136	-10.089	46.314	1.00	19.49
ATOM	6584	CG	LEU	1280	-13.960	-10.734	46.466	1.00	18.98
ATOM	6585	CD1	LEU	1280	-14.186	-10.713	44.897	1.00	19.62
ATOM	6586	CD2	LEU	1280	-15.791	-10.559	47.147	1.00	17.89
ATOM	6587	O	LEU	1280	-10.937	-10.299	46.809	1.00	17.44
ATOM	6588	O	LEU	1280	-10.763	-10.303	47.805	1.00	16.89
ATOM	6589	N	LEU	1281	-10.285	-10.631	45.676	1.00	17.29
ATOM	6590	CA	LEU	1281	-8.174	-10.630	45.930	1.00	16.61
ATOM	6591	CB	LEU	1281	-7.998	-10.263	45.137	1.00	18.33
ATOM	6592	CG	LEU	1281	-6.681	-10.499	45.638	1.00	18.13
ATOM	6593	CD1	LEU	1281	-5.524	-10.139	44.938	1.00	19.28
ATOM	6594	CD2	LEU	1281	-6.566	-10.701	45.786	1.00	17.45
ATOM	6595	C	LEU	1281	-8.631	-10.193	45.633	1.00	17.29
ATOM	6596	O	LEU	1281	-9.900	-10.321	44.475	1.00	15.83
ATOM	6597	N	LEU	1282	-8.833	-10.393	46.689	1.00	16.41
ATOM	6598	CA	LEU	1282	-10.118	-10.383	46.561	1.00	17.05
ATOM	6599	CB	LEU	1282	-11.093	-10.534	47.699	1.00	16.06
ATOM	6600	CG	LEU	1282	-12.601	-10.793	47.550	1.00	17.50
ATOM	6601	CD1	LEU	1282	-12.843	-10.285	47.468	1.00	17.75
ATOM	6602	CD2	LEU	1282	-13.353	-10.176	48.732	1.00	18.80
ATOM	6603	C	LEU	1282	-8.873	-10.169	46.635	1.00	17.94
ATOM	6604	O	LEU	1282	-8.030	-10.425	47.487	1.00	18.05
ATOM	6605	N	ALA	1283	-8.711	-10.199	45.744	1.00	14.15
ATOM	6606	CA	ALA	1283	-7.519	-10.385	45.771	1.00	14.02
ATOM	6607	CB	ALA	1283	-6.694	-10.594	44.532	1.00	17.01
ATOM	6608	C	ALA	1283	-7.940	-9.903	45.855	1.00	13.71
ATOM	6609	O	ALA	1283	-8.868	-9.479	45.157	1.00	13.57
ATOM	6610	N	ASP	1284	-7.287	-9.131	46.719	1.00	13.81
ATOM	6611	CA	ASP	1284	-7.423	-9.713	46.827	1.00	14.31
ATOM	6612	CB	ASP	1284	-7.675	-9.693	48.113	1.00	17.63
ATOM	6613	CG	ASP	1284	-7.990	-9.298	49.310	1.00	19.26
ATOM	6614	CD1	ASP	1284	-9.101	-9.418	49.152	1.00	17.87
ATOM	6615	CD2	ASP	1284	-9.428	-9.301	50.430	1.00	23.10
ATOM	6616	C	ASP	1284	-9.003	-9.912	45.702	1.00	16.99
ATOM	6617	O	ASP	1284	-9.930	-9.356	45.202	1.00	14.33
ATOM	6618	N	LEU	1285	-7.688	-8.849	45.290	1.00	13.78
ATOM	6619	CA	LEU	1285	-7.104	-8.917	44.325	1.00	12.51
ATOM	6620	CB	LEU	1285	-8.151	-8.287	43.418	1.00	14.13
ATOM	6621	CG	LEU	1285	-8.543	-8.157	42.218	1.00	14.98
ATOM	6622	CD1	LEU	1285	-9.426	-8.365	41.262	1.00	15.19
ATOM	6623	CD2	LEU	1285	-7.273	-8.833	41.538	1.00	13.68
ATOM	6624	C	LEU	1285	-6.616	-8.907	45.373	1.00	17.66
ATOM	6625	O	LEU	1285	-7.989	-8.462	45.225	1.00	13.40
ATOM	6626	N	PRO	1286	-5.315	-7.569	48.349	1.00	11.01
ATOM	6627	CD	PRO	1286	-4.776	-4.134	44.477	1.00	12.67
ATOM	6628	CA	PRO	1286	-4.783	-4.821	46.312	1.00	13.67
ATOM	6629	CB	PRO	1286	-3.751	-4.805	46.213	1.00	14.83
ATOM	6630	CG	PRO	1286	-3.073	-4.237	44.759	1.00	13.80
ATOM	6631	C	PRO	1286	-5.078	-4.147	46.079	1.00	13.64
ATOM	6632	O	PRO	1286	-5.771	-4.781	45.138	1.00	14.01
ATOM	6633	N	PHE	1287	-4.581	-6.311	46.943	1.00	13.32
ATOM	6634	CA	PHE	1287	-4.779	-6.130	46.939	1.00	13.53
ATOM	6635	CB	PHE	1287	-3.601	-6.782	47.915	1.00	15.05
ATOM	6636	CG	PHE	1287	-3.661	-5.265	47.750	1.00	15.65
ATOM	6637	CD1	PHE	1287	-4.740	-4.120	47.939	1.00	16.81
ATOM	6638	CD2	PHE	1287	-2.435	-5.814	47.372	1.00	13.49
ATOM	6639	CE1	PHE	1287	-4.593	-5.490	47.865	1.00	16.89
ATOM	6640	CE2	PHE	1287	-2.281	-5.184	47.247	1.00	14.29
ATOM	6641	CZ	PHE	1287	-3.367	-6.032	47.432	1.00	17.50
ATOM	6642	O	PHE	1287	-4.587	-1.692	45.515	1.00	14.14
ATOM	6643	N	MET	1288	-3.581	-1.418	44.851	1.00	11.90
ATOM	6644	CA	MET	1288	-5.561	-2.484	45.071	1.00	13.14
ATOM	6645	CB	MET	1288	-5.555	-3.110	43.751	1.00	13.99
ATOM	6646	CG	MET	1288	-4.470	-4.198	43.687	1.00	15.56
ATOM	6647	SD	MET	1288	-4.792	-5.333	42.709	1.00	17.53
ATOM	6648	SE	MET	1288	-6.295	-6.296	43.134	1.00	16.61
ATOM	6649	CE	MET	1288	-5.573	-7.644	44.077	1.00	17.67
ATOM	6650	C	MET	1288	-5.377	-2.140	42.569	1.00	14.20
ATOM	6651	N	ALA	1289	-4.814	-2.515	41.538	1.00	14.63
ATOM	6652	CA	ALA	1289	-5.840	-0.901	42.704	1.00	12.49
ATOM	6653	CB	ALA	1289	-5.723	-0.046	41.596	1.00	13.64

ATOM	6653	CB	ALA	1298	-9.134	-1.477	41.113	1.00	11.28
ATOM	6654	C	ALA	1298	-9.133	-0.117	40.811	1.00	11.29
ATOM	6655	N	ALA	1298	-9.142	0.819	39.816	1.00	11.26
ATOM	6656	H	TYR	1299	-8.745	0.633	41.176	1.00	11.84
ATOM	6657	CA	TYR	1299	-8.747	0.634	40.609	1.00	11.11
ATOM	6658	CB	TYR	1299	-10.184	0.363	41.183	1.00	10.66
ATOM	6659	CG	TYR	1299	-10.176	-0.170	40.816	1.00	11.41
ATOM	6660	CD1	TYR	1299	-11.098	0.331	43.589	1.00	10.35
ATOM	6661	CE1	TYR	1299	-11.111	0.436	44.893	1.00	10.80
ATOM	6662	CD2	TYR	1299	-9.145	-0.844	43.563	1.00	11.59
ATOM	6663	CE2	TYR	1299	-9.142	-0.766	44.959	1.00	11.17
ATOM	6664	CE	TYR	1299	-10.250	-0.144	45.616	1.00	10.49
ATOM	6665	OH	TYR	1299	-10.112	-0.095	46.991	1.00	10.67
ATOM	6666	C	TYR	1299	-9.846	2.029	40.896	1.00	11.20
ATOM	6667	O	TYR	1299	-11.141	2.212	42.811	1.00	10.18
ATOM	6668	N	ALA	1291	-9.693	3.309	40.110	1.00	11.33
ATOM	6669	CA	ALA	1291	-9.484	4.414	40.191	1.00	10.52
ATOM	6670	CB	ALA	1291	-9.577	5.191	40.232	1.00	10.30
ATOM	6671	C	ALA	1291	-10.421	4.748	39.141	1.00	10.87
ATOM	6672	O	ALA	1291	-11.117	5.751	39.185	1.00	10.07
ATOM	6673	N	THR	1292	-10.401	3.929	38.093	1.00	10.11
ATOM	6674	CA	THR	1292	-11.291	4.111	36.952	1.00	10.17
ATOM	6675	CB	THR	1292	-10.626	4.827	35.751	1.00	10.58
ATOM	6676	CG1	THR	1292	-9.631	3.944	35.125	1.00	10.57
ATOM	6677	CG2	THR	1292	-9.880	6.085	36.110	1.00	10.36
ATOM	6678	C	THR	1292	-11.676	2.695	36.526	1.00	10.67
ATOM	6679	O	THR	1292	-10.971	1.718	36.849	1.00	10.52
ATOM	6680	N	PRO	1293	-12.805	2.514	35.821	1.00	10.10
ATOM	6681	CD	PRO	1293	-12.814	3.517	35.155	1.00	11.83
ATOM	6682	CA	PRO	1293	-13.118	1.222	35.376	1.00	10.00
ATOM	6683	CB	PRO	1293	-14.107	1.515	34.331	1.00	11.85
ATOM	6684	CG	PRO	1293	-15.011	2.695	35.178	1.00	11.15
ATOM	6685	C	PRO	1293	-12.119	0.577	34.118	1.00	10.63
ATOM	6686	O	PRO	1293	-11.739	-0.588	34.712	1.00	10.96
ATOM	6687	N	GLU	1294	-11.181	1.351	32.181	1.00	10.44
ATOM	6688	CA	GLU	1294	-10.111	0.879	32.689	1.00	10.09
ATOM	6689	CB	GLU	1294	-10.014	2.047	31.836	1.00	10.15
ATOM	6690	CG	GLU	1294	-8.859	1.708	31.876	1.00	10.83
ATOM	6691	CD	GLU	1294	-8.114	2.922	30.521	1.00	10.90
ATOM	6692	OE1	GLU	1294	-9.114	3.293	31.111	1.00	10.11
ATOM	6693	OE2	GLU	1294	-8.101	3.553	29.479	1.00	10.17
ATOM	6694	C	GLU	1294	-9.766	0.279	30.471	1.00	10.65
ATOM	6695	O	GLU	1294	-8.984	-0.828	30.179	1.00	10.04
ATOM	6696	N	GLN	1295	-8.871	1.011	34.461	1.00	10.49
ATOM	6697	CA	GLN	1295	-9.739	0.501	35.115	1.00	10.54
ATOM	6698	CB	GLN	1295	-9.733	1.608	36.131	1.00	10.24
ATOM	6699	CG	GLN	1295	-9.647	2.632	35.712	1.00	10.28
ATOM	6700	CD	GLN	1295	-9.118	3.835	36.139	1.00	10.86
ATOM	6701	OE1	GLN	1295	-8.607	3.479	35.192	1.00	10.58
ATOM	6702	NE2	GLN	1295	-8.111	3.031	33.656	1.00	10.69
ATOM	6703	C	GLN	1295	-8.182	-0.681	36.101	1.00	10.06
ATOM	6704	O	GLN	1295	-10.001	-1.698	36.136	1.00	10.07
ATOM	6705	N	ALA	1296	-9.813	-0.694	36.376	1.00	10.84
ATOM	6706	CA	ALA	1296	-9.953	-0.791	35.777	1.00	10.86
ATOM	6707	CB	ALA	1296	-11.033	-1.452	35.348	1.00	10.19
ATOM	6708	C	ALA	1296	-9.953	-2.030	34.128	1.00	10.55
ATOM	6709	O	ALA	1296	-9.953	-3.083	33.310	1.00	10.01
ATOM	6710	N	PHE	1297	-10.645	-2.934	35.185	1.00	10.01
ATOM	6711	CA	PHE	1297	-10.363	-4.111	34.336	1.00	11.05
ATOM	6712	CB	PHE	1297	-10.885	-3.879	32.985	1.00	9.65
ATOM	6713	CG	PHE	1297	-12.204	-3.090	32.942	1.00	10.56
ATOM	6714	CD1	PHE	1297	-13.177	-3.279	33.929	1.00	10.94
ATOM	6715	CD2	PHE	1297	-12.471	-2.205	31.898	1.00	11.57
ATOM	6716	CE1	PHE	1297	-14.132	-2.593	33.891	1.00	10.32
ATOM	6717	CE2	PHE	1297	-13.634	-1.515	31.840	1.00	10.36
ATOM	6718	C2	PHE	1297	-14.613	-1.706	32.841	1.00	10.12
ATOM	6719	C	PHE	1297	-8.956	-4.698	34.140	1.00	10.73
ATOM	6720	O	PHE	1297	-8.757	-5.968	34.318	1.00	10.33
ATOM	6721	N	GLU	1298	-7.931	-3.823	33.998	1.00	10.95
ATOM	6722	CA	GLU	1298	-6.997	-4.265	33.799	1.00	10.53
ATOM	6723	CB	GLU	1298	-5.736	-3.091	33.353	1.00	10.83
ATOM	6724	CG	GLU	1298	-4.361	-3.499	32.348	1.00	10.35
ATOM	6725	CD	GLU	1298	-4.377	-3.908	31.382	1.00	10.25
ATOM	6726	OE1	GLU	1298	-5.089	-4.875	31.025	1.00	10.56
ATOM	6727	OE2	GLU	1298	-3.631	-3.248	30.576	1.00	10.57
ATOM	6728	C	GLU	1298	-5.090	-4.913	30.036	1.00	11.29
ATOM	6729	O	GLU	1298	-5.396	-6.989	34.951	1.00	10.65

ATOM	6737	N	ASN	1299	-6.133	-4.174	36.136	1.00	10.85
ATOM	6738	CA	ASN	1299	-5.952	-4.838	37.414	1.00	11.17
ATOM	6739	CB	ASN	1299	-5.470	-3.769	38.511	1.00	11.17
ATOM	6740	CG	ASN	1299	-4.544	-2.671	39.131	1.00	11.68
ATOM	6741	CG1	ASN	1299	-3.400	-1.617	39.506	1.00	13.05
ATOM	6742	ND	ASN	1299	-4.944	-1.389	38.413	1.00	13.43
ATOM	6743	O	ASN	1299	-6.301	-6.070	37.905	1.00	11.70
ATOM	6744	O	ASN	1299	-5.692	-6.987	38.473	1.00	11.65
ATOM	6745	N	ALA	1300	-7.619	-6.104	37.701	1.00	11.62
ATOM	6746	CA	ALA	1300	-8.384	-7.281	38.095	1.00	9.92
ATOM	6747	CB	ALA	1300	-9.864	-8.031	37.911	1.00	11.63
ATOM	6748	O	ALA	1300	-7.927	-8.438	37.209	1.00	9.32
ATOM	6749	O	ALA	1300	-7.720	-9.532	37.688	1.00	11.63
ATOM	6750	N	ALA	1301	-7.745	-8.176	36.918	1.00	9.17
ATOM	6751	CA	ALA	1301	-7.323	-9.345	35.013	1.00	10.11
ATOM	6752	CB	ALA	1301	-7.236	-9.719	34.501	1.00	8.82
ATOM	6753	O	ALA	1301	-5.981	-9.810	35.492	1.00	10.42
ATOM	6754	O	ALA	1301	-5.294	-11.039	35.373	1.00	10.44
ATOM	6755	N	THR	1302	-5.055	-8.816	35.873	1.00	10.18
ATOM	6756	CA	THR	1302	-3.729	-8.378	36.312	1.00	10.80
ATOM	6757	CB	THR	1302	-2.831	-8.149	36.743	1.00	11.76
ATOM	6758	CG1	THR	1302	-2.586	-8.317	35.632	1.00	12.59
ATOM	6759	CG2	THR	1302	-1.479	-8.701	37.260	1.00	11.04
ATOM	6760	O	THR	1302	-3.801	-11.371	37.457	1.00	10.37
ATOM	6761	O	THR	1302	-3.177	-11.433	37.391	1.00	10.85
ATOM	6762	N	VAL	1303	-4.567	-11.071	38.502	1.00	9.66
ATOM	6763	CA	VAL	1303	-4.621	-10.901	39.630	1.00	9.50
ATOM	6764	CB	VAL	1303	-5.111	-10.277	40.894	1.00	13.96
ATOM	6765	CG1	VAL	1303	-4.903	-11.175	41.085	1.00	18.44
ATOM	6766	CG2	VAL	1303	-4.326	-10.941	41.091	1.00	11.79
ATOM	6767	O	VAL	1303	-5.441	-11.293	39.558	1.00	19.29
ATOM	6768	O	VAL	1303	-5.187	-11.372	39.955	1.00	8.82
ATOM	6769	N	MET	1304	-6.411	-11.142	39.453	1.00	13.19
ATOM	6770	CA	MET	1304	-7.211	-11.131	39.069	1.00	12.39
ATOM	6771	CB	MET	1304	-8.131	-11.544	37.771	1.00	13.83
ATOM	6772	CG	MET	1304	-9.481	-11.065	37.951	1.00	18.80
ATOM	6773	CD	MET	1304	-10.481	-11.031	39.099	1.00	21.49
ATOM	6774	CE	MET	1304	-11.591	-11.271	37.917	1.00	17.14
ATOM	6775	O	MET	1304	-8.341	-14.271	37.754	1.00	11.47
ATOM	6776	O	MET	1304	-8.301	-13.441	37.462	1.00	11.55
ATOM	6777	N	ARG	1305	-5.541	-11.716	36.323	1.00	11.47
ATOM	6778	CA	ARG	1305	-4.673	-11.601	37.514	1.00	9.90
ATOM	6779	CB	ARG	1305	-3.931	-11.801	34.441	1.00	9.95
ATOM	6780	CG	ARG	1305	-4.801	-11.114	33.373	1.00	13.47
ATOM	6781	CD	ARG	1305	-4.901	-11.880	32.151	1.00	13.07
ATOM	6782	NE	ARG	1305	-4.581	-11.012	31.271	1.00	16.81
ATOM	6783	CZ	ARG	1305	-4.591	-10.804	31.343	1.00	17.19
ATOM	6784	NH1	ARG	1305	-4.181	-10.314	32.317	1.00	15.65
ATOM	6785	NH2	ARG	1305	-5.681	-10.101	30.570	1.00	16.90
ATOM	6786	O	ARG	1305	-3.941	-10.110	34.411	1.00	11.17
ATOM	6787	O	ARG	1305	-3.141	-10.370	34.173	1.00	17.18
ATOM	6788	N	ALA	1306	-3.114	-13.804	35.519	1.00	9.69
ATOM	6789	CA	ALA	1306	-2.141	-13.168	36.449	1.00	11.44
ATOM	6790	CB	ALA	1306	-1.567	-13.001	36.521	1.00	13.79
ATOM	6791	O	ALA	1306	-2.111	-13.178	36.319	1.00	12.44
ATOM	6792	O	ALA	1306	-2.171	-13.101	40.513	1.00	12.12
ATOM	6793	N	GLY	1307	-4.171	-10.311	36.297	1.00	12.27
ATOM	6794	CA	GLY	1307	-4.821	-10.219	40.015	1.00	13.76
ATOM	6795	O	GLY	1307	-6.091	-11.231	40.810	1.00	13.42
ATOM	6796	O	GLY	1307	-6.911	-10.174	41.345	1.00	14.10
ATOM	6797	N	ALA	1308	-6.481	-13.809	40.964	1.00	11.75
ATOM	6798	CA	ALA	1308	-7.691	-13.419	41.706	1.00	12.50
ATOM	6799	CB	ALA	1308	-7.851	-14.144	42.065	1.00	12.41
ATOM	6800	O	ALA	1308	-8.964	-13.909	40.958	1.00	12.62
ATOM	6801	O	ALA	1308	-9.607	-13.996	39.725	1.00	12.19
ATOM	6802	N	ASN	1309	-10.658	-13.165	41.515	1.00	12.53
ATOM	6803	CA	ASN	1309	-11.868	-13.466	41.158	1.00	13.45
ATOM	6804	CB	ASN	1309	-12.040	-13.841	41.852	1.00	14.86
ATOM	6805	CG	ASN	1309	-11.149	-13.914	41.569	1.00	15.09
ATOM	6806	CD1	ASN	1309	-10.999	-14.449	40.682	1.00	16.19
ATOM	6807	ND2	ASN	1309	-10.852	-14.411	40.926	1.00	12.60
ATOM	6808	O	ASN	1309	-12.288	-15.771	41.523	1.00	13.77
ATOM	6809	O	ASN	1309	-13.353	-15.709	40.719	1.00	14.80
ATOM	6810	N	MET	1310	-11.870	-14.731	40.165	1.00	13.61
ATOM	6811	CA	MET	1310	-12.687	-14.166	42.491	1.00	12.31
ATOM	6812	CB	MET	1310	-13.708	-14.584	43.562	1.00	14.22
ATOM	6813	CG	MET	1310	-14.634	-12.499	44.992	1.00	17.85

ATOM	8807	CH	MET	1310	-15.747	-1.189	44.241	1.00	19.99
ATOM	8808	CH	MET	1310	-17.324	-1.182	44.144	1.00	21.97
ATOM	8809	C	MET	1310	-11.794	-1.281	43.016	1.00	12.24
ATOM	8810	O	MET	1310	-12.737	-1.284	43.582	1.00	11.69
ATOM	8811	N	VAL	1311	-12.237	-1.181	43.818	1.00	12.28
ATOM	8812	CA	VAL	1311	-11.466	-1.666	43.272	1.00	17.29
ATOM	8813	CH	VAL	1311	-11.215	-1.728	42.998	1.00	15.81
ATOM	8814	CO1	VAL	1311	-10.651	-1.431	42.588	1.00	14.74
ATOM	8815	CO2	VAL	1311	-10.253	-1.383	41.186	1.00	14.31
ATOM	8816	C	VAL	1311	-12.234	-1.933	44.380	1.00	17.00
ATOM	8817	O	VAL	1311	-13.462	-1.831	44.763	1.00	18.49
ATOM	8818	N	LEU	1312	-11.515	-1.463	45.755	1.00	17.73
ATOM	8819	CA	LEU	1312	-12.158	-1.662	45.413	1.00	11.17
ATOM	8820	CH	LEU	1312	-11.806	-1.197	47.297	1.00	17.10
ATOM	8821	CO	LEU	1312	-12.465	-1.402	48.521	1.00	15.72
ATOM	8822	CO1	LEU	1312	-12.63	-1.211	50.187	1.00	16.16
ATOM	8823	CH	LEU	1312	-11.297	-1.392	50.521	1.00	18.97
ATOM	8824	NH	LEU	1312	-10.712	-1.084	51.551	1.00	15.88
ATOM	8825	C	LEU	1312	-11.716	-1.182	46.511	1.00	15.64
ATOM	8826	O	LEU	1312	-10.516	-1.892	46.171	1.00	15.12
ATOM	8827	N	ILE	1313	-12.680	-1.211	46.181	1.00	15.62
ATOM	8828	CA	ILE	1313	-12.382	-1.847	46.103	1.00	14.45
ATOM	8829	CH	ILE	1313	-12.602	-1.231	44.543	1.00	16.94
ATOM	8830	CO1	ILE	1313	-11.890	-1.711	43.839	1.00	19.14
ATOM	8831	CO1	ILE	1313	-14.266	-1.581	44.661	1.00	18.59
ATOM	8832	CO1	ILE	1313	-14.764	-1.013	43.243	1.00	19.90
ATOM	8833	C	ILE	1313	-13.117	-1.051	47.413	1.00	14.85
ATOM	8834	O	ILE	1313	-14.264	-1.421	47.743	1.00	15.87
ATOM	8835	N	GLU	1314	-13.483	-2.051	47.651	1.00	15.54
ATOM	8836	CA	GLU	1314	-13.637	-1.251	49.143	1.00	14.90
ATOM	8837	CH	GLU	1314	-11.641	-0.821	50.613	1.00	16.10
ATOM	8838	CO	GLU	1314	-11.692	-1.941	50.573	1.00	15.92
ATOM	8839	CO	GLU	1314	-9.990	-1.441	51.511	1.00	18.61
ATOM	8840	CO1	GLU	1314	-9.663	-1.211	51.511	1.00	18.97
ATOM	8841	CO2	GLU	1314	-9.111	-2.231	52.456	1.00	20.17
ATOM	8842	C	GLU	1314	-13.783	-1.501	43.581	1.00	14.15
ATOM	8843	CH	GLU	1314	-13.110	-1.751	47.143	1.00	16.21
ATOM	8844	N	GLY	1315	-14.983	-0.221	49.151	1.00	16.18
ATOM	8845	CA	GLY	1315	-15.713	-1.411	48.781	1.00	16.32
ATOM	8846	C	GLY	1315	-13.196	-1.191	48.891	1.00	16.99
ATOM	8847	O	GLY	1315	-13.682	-0.061	48.831	1.00	16.14
ATOM	8848	N	GLY	1315	-17.932	-1.231	48.861	1.00	16.84
ATOM	8849	CA	GLY	1315	-19.190	-2.201	48.861	1.00	18.48
ATOM	8850	C	GLY	1315	-19.911	-2.451	47.123	1.00	15.09
ATOM	8851	O	GLY	1315	-19.491	-1.921	46.121	1.00	18.98
ATOM	8852	N	GIU	1315	-21.622	-1.261	47.192	1.00	18.78
ATOM	8853	CH	GIU	1315	-21.583	-1.461	43.931	1.00	21.33
ATOM	8854	CO	GIU	1315	-22.781	-3.651	46.201	1.00	24.13
ATOM	8855	CO	GIU	1315	-24.211	-3.201	46.171	1.00	34.64
ATOM	8856	CH	GIU	1315	-24.916	-3.581	44.544	1.00	35.84
ATOM	8857	CO1	GIU	1315	-24.773	-3.261	43.862	1.00	46.61
ATOM	8858	CO2	GIU	1315	-25.981	-5.211	43.611	1.00	38.31
ATOM	8859	C	GIU	1315	-26.932	-3.051	45.781	1.00	37.26
ATOM	8860	O	GIU	1315	-21.118	-3.711	43.641	1.00	35.86
ATOM	8861	N	THR	1316	-19.897	-3.781	44.981	1.00	35.44
ATOM	8862	CA	THR	1316	-17.611	-3.251	43.844	1.00	35.52
ATOM	8863	CH	THR	1316	-17.969	-3.141	44.101	1.00	36.44
ATOM	8864	CO	THR	1316	-16.751	-3.471	44.951	1.00	35.65
ATOM	8865	CO1	THR	1316	-15.554	-3.011	44.116	1.00	35.15
ATOM	8866	CO2	THR	1316	-14.710	-3.401	41.107	1.00	36.89
ATOM	8867	CO3	THR	1316	-15.643	-3.101	43.601	1.00	35.81
ATOM	8868	CO1	THR	1316	-16.643	-5.061	46.163	1.00	38.81
ATOM	8869	NH1	THR	1316	-15.451	-4.441	46.481	1.00	37.66
ATOM	8870	CH2	THR	1316	-13.498	-3.881	45.631	1.00	36.56
ATOM	8871	CH3	THR	1316	-13.714	-4.581	42.721	1.00	36.65
ATOM	8872	CH2	THR	1316	-13.600	-3.911	43.716	1.00	35.94
ATOM	8873	C	THR	1316	-18.557	-4.121	42.972	1.00	35.10
ATOM	8874	O	THR	1316	-18.163	-4.341	41.832	1.00	35.72
ATOM	8875	N	LEU	1319	-18.580	-2.901	43.501	1.00	35.72
ATOM	8876	CA	LEU	1319	-18.100	-1.711	42.803	1.00	34.32
ATOM	8877	CH	LEU	1319	-17.552	-0.691	43.813	1.00	35.67
ATOM	8878	CO	LEU	1319	-16.223	-1.041	44.491	1.00	35.14
ATOM	8879	CO1	LEU	1319	-15.872	-0.031	45.503	1.00	34.17
ATOM	8880	CO2	LEU	1319	-15.133	-1.143	43.423	1.00	34.65
ATOM	8881	C	LEU	1319	-19.129	-0.992	41.935	1.00	35.55
ATOM	8882	O	LEU	1319	-18.573	-0.083	41.192	1.00	36.40
ATOM	8883	N	VAL	1320	-20.593	-1.385	42.923	1.00	35.54

ATOM	8884	CA	VAL	1320	-21.446	0.758	41.124	1.00	15.61
ATOM	8885	CB	VAL	1320	-22.769	1.477	41.328	1.00	15.50
ATOM	8886	CG1	VAL	1320	-23.760	0.896	40.327	1.00	16.93
ATOM	8887	CG2	VAL	1320	-23.339	1.407	42.127	1.00	15.17
ATOM	8888	C	VAL	1320	-21.114	0.461	39.819	1.00	15.89
ATOM	8889	O	VAL	1320	-21.137	-0.740	39.375	1.00	16.71
ATOM	8890	N	LEU	1321	-20.703	1.427	39.078	1.00	15.89
ATOM	8891	CA	LEU	1321	-20.367	1.256	37.687	1.00	16.86
ATOM	8892	CB	LEU	1321	-19.982	2.691	37.638	1.00	13.47
ATOM	8893	CG	LEU	1321	-19.483	2.437	35.601	1.00	23.16
ATOM	8894	CD	LEU	1321	-19.156	3.836	34.667	1.00	21.91
ATOM	8895	CE1	LEU	1321	-18.295	4.576	33.485	1.00	23.90
ATOM	8896	CE2	LEU	1321	-19.761	4.153	33.623	1.00	30.66
ATOM	8897	C	LEU	1321	-19.217	0.265	37.509	1.00	16.65
ATOM	8898	O	LEU	1321	-19.258	-0.639	36.671	1.00	17.48
ATOM	8899	N	THR	1322	-19.180	0.311	37.723	1.00	17.47
ATOM	8900	CA	THR	1322	-17.013	-0.332	36.271	1.00	13.61
ATOM	8901	CB	THR	1322	-15.983	-0.805	36.551	1.00	13.61
ATOM	8902	CG1	THR	1322	-15.481	1.130	36.946	1.00	16.65
ATOM	8903	CG2	THR	1322	-14.807	-1.001	36.393	1.00	13.60
ATOM	8904	C	THR	1322	-17.432	-1.347	36.463	1.00	13.95
ATOM	8905	O	THR	1322	-17.064	-2.779	37.875	1.00	13.98
ATOM	8906	N	VAL	1323	-18.221	-2.133	36.301	1.00	13.13
ATOM	8907	CA	VAL	1323	-13.696	-3.433	36.194	1.00	13.28
ATOM	8908	CB	VAL	1323	-19.511	-3.509	35.107	1.00	14.17
ATOM	8909	CG1	VAL	1323	-20.152	-4.381	32.303	1.00	13.33
ATOM	8910	CG2	VAL	1323	-13.597	-3.177	32.375	1.00	13.26
ATOM	8911	C	VAL	1323	-13.537	-4.061	38.847	1.00	13.31
ATOM	8912	O	VAL	1323	-13.325	-5.203	38.226	1.00	13.70
ATOM	8913	N	GLN	1324	-20.480	-3.374	38.137	1.00	13.37
ATOM	8914	CA	GLN	1324	-21.322	-3.740	37.339	1.00	15.20
ATOM	8915	CB	GLN	1324	-22.300	-2.640	36.109	1.00	16.72
ATOM	8916	CG	GLN	1324	-23.292	-2.313	37.682	1.00	22.21
ATOM	8917	CD	GLN	1324	-24.211	-1.098	37.344	1.00	24.87
ATOM	8918	CE1	GLN	1324	-23.761	-0.111	36.646	1.00	26.46
ATOM	8919	CE2	GLN	1324	-25.498	-1.212	37.152	1.00	27.32
ATOM	8920	C	GLN	1324	-20.463	-4.143	35.850	1.00	15.72
ATOM	8921	O	GLN	1324	-20.617	-5.205	35.804	1.00	14.44
ATOM	8922	N	HET	1325	-19.536	-3.217	35.169	1.00	14.94
ATOM	8923	CA	HET	1325	-18.670	-3.573	34.334	1.00	14.16
ATOM	8924	CB	HET	1325	-17.942	-2.231	33.332	1.00	13.53
ATOM	8925	CG	HET	1325	-18.877	-1.166	33.384	1.00	16.17
ATOM	8926	SD	HET	1325	-17.961	0.267	32.875	1.00	16.88
ATOM	8927	SE	HET	1325	-17.729	-0.079	31.088	1.00	21.14
ATOM	8928	C	HET	1325	-17.688	-4.684	34.558	1.00	15.07
ATOM	8929	O	HET	1325	-17.438	-5.465	33.639	1.00	11.98
ATOM	8930	N	LEU	1326	-17.127	-4.809	35.737	1.00	12.87
ATOM	8931	CA	LEU	1326	-16.713	-5.919	36.066	1.00	13.89
ATOM	8932	CB	LEU	1326	-15.616	-5.305	37.417	1.00	13.67
ATOM	8933	CG	LEU	1326	-14.431	-4.308	37.974	1.00	14.23
ATOM	8934	CD	LEU	1326	-14.101	-4.665	36.644	1.00	13.52
ATOM	8935	CE	LEU	1326	-13.223	-5.438	36.815	1.00	13.49
ATOM	8936	C	LEU	1326	-16.967	-7.235	33.664	1.00	15.69
ATOM	8937	O	LEU	1326	-16.477	-8.177	33.219	1.00	17.34
ATOM	8938	N	THR	1327	-13.159	-7.592	33.335	1.00	15.39
ATOM	8939	CA	THR	1327	-13.955	-8.466	32.470	1.00	13.21
ATOM	8940	CB	THR	1327	-20.317	-3.284	33.111	1.00	19.12
ATOM	8941	CG1	THR	1327	-20.031	-3.075	32.533	1.00	22.99
ATOM	8942	CG2	THR	1327	-21.203	-2.530	32.120	1.00	21.12
ATOM	8943	C	THR	1327	-13.331	-8.944	34.969	1.00	17.87
ATOM	8944	O	THR	1327	-13.200	-10.123	34.675	1.00	15.79
ATOM	8945	N	GLU	1328	-13.765	-8.018	34.146	1.00	19.35
ATOM	8946	CA	GLU	1328	-20.110	-8.417	32.787	1.00	19.92
ATOM	8947	CB	GLU	1328	-20.951	-7.330	32.164	1.00	24.09
ATOM	8948	CG	GLU	1328	-20.189	-6.213	31.431	1.00	25.04
ATOM	8949	CD	GLU	1328	-21.115	-5.153	30.854	1.00	23.39
ATOM	8950	CE1	GLU	1328	-22.192	-5.550	30.106	1.00	27.47
ATOM	8951	CE2	GLU	1328	-20.782	-3.957	30.916	1.00	21.37
ATOM	8952	C	GLU	1328	-18.863	-8.749	31.971	1.00	20.62
ATOM	8953	O	GLU	1328	-18.953	-9.545	30.882	1.00	22.84
ATOM	8954	N	AFG	1329	-17.692	-8.447	32.516	1.00	18.60
ATOM	8955	CA	AFG	1329	-16.425	-8.760	31.850	1.00	16.07
ATOM	8956	CB	AFG	1329	-15.499	-7.539	31.903	1.00	15.66
ATOM	8957	CG	AFG	1329	-15.916	-6.473	30.899	1.00	12.32
ATOM	8958	CD	AFG	1329	-15.278	-5.098	31.121	1.00	15.51
ATOM	8959	CE	AFG	1329	-15.805	-4.147	30.144	1.00	11.85
ATOM	8960	CZ	AFG	1329	-17.075	-3.748	30.096	1.00	13.40

ATOM	8961	NH1	ARG	1329	-17.942	-4.762	39.680	1.00	13.84
ATOM	8962	NH1	ARG	1329	-17.486	-3.721	39.133	1.00	11.13
ATOM	8963	C	ARG	1329	-15.737	-9.986	41.496	1.00	16.04
ATOM	8964	O	ARG	1329	-14.508	-15.111	37.340	1.00	15.66
ATOM	8965	N	ALA	1330	-16.541	-10.872	38.837	1.00	15.39
ATOM	8966	CA	ALA	1330	-16.660	-12.149	38.878	1.00	14.76
ATOM	8967	CB	ALA	1330	-15.212	-12.807	38.655	1.00	14.48
ATOM	8968	C	ALA	1330	-15.706	-12.070	38.034	1.00	14.63
ATOM	8969	O	ALA	1330	-14.635	-13.053	35.408	1.00	14.81
ATOM	8970	N	VAL	1331	-15.359	-10.929	38.679	1.00	13.56
ATOM	8971	CA	VAL	1331	-14.678	-13.779	36.951	1.00	14.03
ATOM	8972	CB	VAL	1331	-13.755	-9.536	36.476	1.00	14.53
ATOM	8973	CG1	VAL	1331	-13.436	-9.306	38.390	1.00	14.84
ATOM	8974	CG2	VAL	1331	-12.653	-9.736	35.853	1.00	14.69
ATOM	8975	C	VAL	1331	-15.657	-10.662	38.117	1.00	13.93
ATOM	8976	O	VAL	1331	-15.749	-9.669	38.153	1.00	14.10
ATOM	8977	N	PRO	1332	-15.779	-11.716	38.916	1.00	14.67
ATOM	8978	CD	PRO	1332	-15.753	-13.049	38.740	1.00	14.30
ATOM	8979	CA	PRO	1332	-16.706	-11.648	40.074	1.00	13.11
ATOM	8980	CB	PRO	1332	-16.743	-13.077	40.573	1.00	14.81
ATOM	8981	CG	PRO	1332	-15.700	-13.673	40.175	1.00	20.41
ATOM	8982	C	PRO	1332	-16.411	-10.634	41.100	1.00	14.33
ATOM	8983	O	PRO	1332	-14.846	-10.616	41.058	1.00	11.73
ATOM	8984	N	VAL	1333	-16.476	-9.966	41.784	1.00	13.13
ATOM	8985	CA	VAL	1333	-16.702	-8.941	42.752	1.00	11.47
ATOM	8986	CB	VAL	1333	-16.896	-7.561	42.311	1.00	10.56
ATOM	8987	CG1	VAL	1333	-16.465	-6.511	43.378	1.00	12.38
ATOM	8988	CG2	VAL	1333	-16.128	-7.235	40.987	1.00	9.00
ATOM	8989	C	VAL	1333	-17.421	-9.206	44.150	1.00	12.46
ATOM	8990	O	VAL	1333	-18.176	-9.581	44.346	1.00	13.56
ATOM	8991	N	CYS	1334	-16.145	-8.987	45.122	1.00	11.49
ATOM	8992	CA	CYS	1334	-16.515	-9.042	46.524	1.00	15.09
ATOM	8993	CB	CYS	1334	-15.461	-8.988	47.294	1.00	14.71
ATOM	8994	SG	CYS	1334	-15.827	-9.940	49.091	1.00	15.49
ATOM	8995	C	CYS	1334	-16.855	-7.637	47.015	1.00	15.99
ATOM	8996	O	CYS	1334	-15.511	-7.011	46.818	1.00	14.76
ATOM	8997	N	GLA	1335	-17.415	-7.114	47.627	1.00	14.01
ATOM	8998	CA	GLA	1335	-17.875	-5.764	48.131	1.00	15.56
ATOM	8999	C	GLA	1335	-16.126	-5.737	49.510	1.00	13.97
ATOM	9000	O	GLA	1335	-18.501	-6.402	50.168	1.00	14.54
ATOM	9001	N	HIS	1336	-16.845	-4.511	50.617	1.00	14.71
ATOM	9002	CA	HIS	1336	-13.801	-4.347	51.320	1.00	14.57
ATOM	9003	CB	HIS	1336	-14.777	-4.369	51.143	1.00	13.80
ATOM	9004	CG	HIS	1336	-15.111	-4.501	52.431	1.00	16.47
ATOM	9005	CG2	HIS	1336	-13.868	-4.766	53.697	1.00	14.97
ATOM	9006	ND1	HIS	1336	-12.195	-4.317	52.502	1.00	16.35
ATOM	9007	NE1	HIS	1336	-11.773	-4.349	53.752	1.00	17.68
ATOM	9008	NE2	HIS	1336	-12.769	-4.386	51.458	1.00	15.76
ATOM	9009	C	HIS	1336	-16.706	-3.942	51.905	1.00	14.17
ATOM	9010	O	HIS	1336	-15.852	-2.605	51.562	1.00	15.71
ATOM	9011	N	LEU	1337	-16.947	-3.019	53.310	1.00	16.11
ATOM	9012	CA	LEU	1337	-17.417	-1.895	53.662	1.00	14.47
ATOM	9013	CB	LEU	1337	-18.947	-1.117	53.569	1.00	14.97
ATOM	9014	CG	LEU	1337	-19.500	-1.315	52.113	1.00	14.78
ATOM	9015	CG1	LEU	1337	-21.012	-1.388	52.174	1.00	19.34
ATOM	9016	CG2	LEU	1337	-19.659	-1.017	51.659	1.00	15.26
ATOM	9017	C	LEU	1337	-17.074	-1.819	50.151	1.00	15.16
ATOM	9018	O	LEU	1337	-16.704	-2.815	51.575	1.00	15.49
ATOM	9019	N	GLY	1338	-17.714	-0.746	52.767	1.00	16.32
ATOM	9020	CA	GLY	1338	-16.911	-0.487	53.175	1.00	18.65
ATOM	9021	C	GLY	1338	-15.546	-0.103	53.529	1.00	20.71
ATOM	9022	O	GLY	1338	-15.244	1.149	56.779	1.00	20.72
ATOM	9023	N	LEU	1339	-14.692	-0.592	58.071	1.00	21.08
ATOM	9024	CA	LEU	1339	-13.328	-0.170	58.274	1.00	21.80
ATOM	9025	CB	LEU	1339	-12.760	-0.650	59.586	1.00	22.66
ATOM	9026	CG	LEU	1339	-11.676	-0.069	60.275	1.00	26.11
ATOM	9027	CG1	LEU	1339	-11.069	-0.714	61.475	1.00	25.71
ATOM	9028	CG2	LEU	1339	-10.518	0.410	56.790	1.00	25.89
ATOM	9029	C	LEU	1339	-12.500	-0.613	57.096	1.00	21.61
ATOM	9030	O	LEU	1339	-12.007	-1.762	57.168	1.00	21.76
ATOM	9031	N	THR	1340	-12.786	-0.205	56.070	1.00	21.68
ATOM	9032	CA	THR	1340	-11.618	-0.104	54.864	1.00	22.61
ATOM	9033	CB	THR	1340	-12.501	-0.507	53.621	1.00	23.90
ATOM	9034	CG1	THR	1340	-12.526	1.906	53.842	1.00	23.55
ATOM	9035	CG2	THR	1340	-13.641	-0.169	53.375	1.00	26.26
ATOM	9036	C	THR	1340	-10.262	-0.510	55.053	1.00	20.26
ATOM	9037	O	THR	1340	-10.057	1.715	54.899	1.00	23.50

ATOM	9038	H	PRO	1341	-9.726	-6.833	55.372	1.00	20.57
ATOM	9039	CI	PRO	1341	-9.300	-1.794	55.277	1.00	21.42
ATOM	9040	CA	PRO	1341	-7.842	0.114	55.603	1.00	19.00
ATOM	9041	CB	PRO	1341	-7.991	-1.235	55.901	1.00	22.57
ATOM	9042	CG	PRO	1341	-7.481	-2.171	54.978	1.00	25.73
ATOM	9043	C	PRO	1341	-7.110	1.019	54.570	1.00	18.31
ATOM	9044	O	PRO	1341	-6.732	1.832	54.828	1.00	18.10
ATOM	9045	N	GLN	1342	-7.771	0.845	53.799	1.00	17.90
ATOM	9046	CA	GLN	1342	-6.734	1.751	52.204	1.00	18.59
ATOM	9047	CB	GLN	1342	-7.132	1.355	56.341	1.00	18.19
ATOM	9048	CG	GLN	1342	-6.732	0.124	56.316	1.00	17.10
ATOM	9049	CD	GLN	1342	-7.765	-0.407	49.137	1.00	18.63
ATOM	9050	CE1	GLN	1342	-7.781	0.380	49.266	1.00	21.48
ATOM	9051	NE2	GLN	1342	-7.110	-1.725	4.188	1.00	23.10
ATOM	9052	C	GLN	1342	-7.115	1.233	51.539	1.00	18.46
ATOM	9053	O	GLN	1342	-6.415	1.113	51.189	1.00	21.17
ATOM	9054	N	SER	1343	-8.747	1.528	51.201	1.00	20.86
ATOM	9055	CA	SER	1343	-8.684	1.913	53.575	1.00	21.17
ATOM	9056	CB	SER	1343	-10.110	1.164	51.333	1.00	23.94
ATOM	9057	CG	SER	1343	-10.774	1.933	51.335	1.00	23.34
ATOM	9058	C	SER	1343	-8.157	1.261	51.331	1.00	21.43
ATOM	9059	O	SER	1343	-8.734	1.000	51.837	1.00	20.45
ATOM	9060	N	VAL	1344	-8.777	1.612	51.348	1.00	20.55
ATOM	9061	CA	VAL	1344	-8.812	1.911	56.849	1.00	21.71
ATOM	9062	CB	VAL	1344	-8.752	1.060	51.211	1.00	23.85
ATOM	9063	CG1	VAL	1344	-11.770	1.379	56.551	1.00	21.50
ATOM	9064	CG2	VAL	1344	-8.101	1.301	51.711	1.00	21.91
ATOM	9065	C	VAL	1344	-8.161	0.538	51.007	1.00	21.37
ATOM	9066	O	VAL	1344	-8.807	1.360	51.114	1.00	21.26
ATOM	9067	N	ASN	1345	-8.318	1.038	56.031	1.00	21.04
ATOM	9068	CA	ASN	1345	-8.566	1.418	56.117	1.00	21.19
ATOM	9069	CB	ASN	1345	-11.885	1.845	51.333	1.00	21.83
ATOM	9070	CG	ASN	1345	-8.318	1.183	55.036	1.00	21.35
ATOM	9071	CD1	ASN	1345	-11.566	1.283	55.338	1.00	21.07
ATOM	9072	ND2	ASN	1345	-8.163	1.348	51.031	1.00	21.65
ATOM	9073	C	ASN	1345	-8.810	1.118	56.117	1.00	21.24
ATOM	9074	O	ASN	1345	-8.816	1.463	56.138	1.00	21.81
ATOM	9075	N	ILE	1346	-10.963	1.813	51.334	1.00	21.67
ATOM	9076	CA	ILE	1346	-11.179	1.881	51.417	1.00	21.69
ATOM	9077	CB	ILE	1346	-10.115	1.349	51.331	1.00	21.32
ATOM	9078	CG2	ILE	1346	-11.117	1.193	51.538	1.00	21.45
ATOM	9079	CG1	ILE	1346	-10.814	1.111	51.031	1.00	21.42
ATOM	9080	CD1	ILE	1346	-10.846	1.348	52.513	1.00	21.54
ATOM	9081	C	ILE	1346	-11.847	1.114	51.831	1.00	21.86
ATOM	9082	O	ILE	1346	-10.811	1.345	51.337	1.00	21.66
ATOM	9083	N	PHE	1347	-8.896	1.351	57.443	1.00	21.33
ATOM	9084	CA	PHE	1347	-10.713	1.133	58.130	1.00	21.59
ATOM	9085	CB	PHE	1347	-10.815	1.769	59.036	1.00	21.55
ATOM	9086	CG	PHE	1347	-11.032	1.013	56.531	1.00	21.41
ATOM	9087	CD1	PHE	1347	-11.771	1.309	57.931	1.00	21.50
ATOM	9088	CD2	PHE	1347	-11.349	1.516	57.518	1.00	21.68
ATOM	9089	CE1	PHE	1347	-11.116	1.031	56.538	1.00	21.26
ATOM	9090	CE2	PHE	1347	-11.168	1.113	56.537	1.00	21.11
ATOM	9091	C	PHE	1347	-11.193	1.389	56.531	1.00	21.74
ATOM	9092	O	PHE	1347	-10.609	1.031	59.912	1.00	21.63
ATOM	9093	O	PHE	1347	-10.632	1.617	61.344	1.00	21.58
ATOM	9094	N	GLY	1348	-8.119	1.351	59.609	1.00	21.17
ATOM	9095	CA	GLY	1348	-7.967	1.391	60.417	1.00	21.19
ATOM	9096	C	GLY	1348	-8.901	1.137	61.531	1.00	21.20
ATOM	9097	O	GLY	1348	-8.574	1.361	62.679	1.00	21.38
ATOM	9098	N	GLY	1349	-7.079	1.923	61.019	1.00	21.27
ATOM	9099	CA	GLY	1349	-8.681	1.770	61.812	1.00	21.19
ATOM	9100	C	GLY	1349	-7.580	1.592	61.597	1.00	21.96
ATOM	9101	O	GLY	1349	-8.482	1.649	60.762	1.00	21.55
ATOM	9102	N	TYR	1350	-7.319	1.517	62.346	1.00	21.88
ATOM	9103	CA	TYR	1350	-8.195	1.333	62.726	1.00	21.67
ATOM	9104	CB	TYR	1350	-7.136	1.069	62.195	1.00	21.55
ATOM	9105	CG	TYR	1350	-6.210	1.048	61.171	1.00	21.81
ATOM	9106	CD1	TYR	1350	-4.989	1.643	61.542	1.00	21.81
ATOM	9107	CE1	TYR	1350	-6.969	1.661	60.592	1.00	21.96
ATOM	9108	CD2	TYR	1350	-6.406	0.463	60.017	1.00	21.83
ATOM	9109	CE2	TYR	1350	-5.389	0.473	59.054	1.00	21.92
ATOM	9110	CZ	TYR	1350	-4.177	1.079	59.350	1.00	21.88
ATOM	9111	CH	TYR	1350	-5.174	1.117	58.405	1.00	21.09
ATOM	9112	O	TYR	1350	-9.239	1.327	63.836	1.00	21.58
ATOM	9113	O	TYR	1350	-9.110	1.612	64.330	1.00	21.34
ATOM	9114	N	LYS	1351	-10.278	1.132	63.150	1.00	21.80

ATOM	9115	CA	LYS	1351	-11.349	3.254	64.122	1.00	37.85
ATOM	9116	CH	LYS	1351	-11.650	1.738	64.354	1.00	39.96
ATOM	9117	CH	LYS	1351	-10.330	5.592	64.529	1.00	41.93
ATOM	9118	CD	LYS	1351	-10.621	2.062	64.253	1.00	43.31
ATOM	9119	CH	LYS	1351	-9.323	5.891	64.225	1.00	44.78
ATOM	9120	NH	LYS	1351	-8.336	6.155	64.846	1.00	44.47
ATOM	9121	C	LYS	1351	-12.627	1.531	64.643	1.00	37.31
ATOM	9122	O	LYS	1351	-12.820	1.327	64.144	1.00	36.40
ATOM	9123	N	VAL	1352	-13.451	1.117	64.593	1.00	36.10
ATOM	9124	CA	VAL	1352	-14.705	1.865	64.230	1.00	35.30
ATOM	9125	CB	VAL	1352	-15.133	1.110	64.559	1.00	35.06
ATOM	9126	OH1	VAL	1352	-16.331	1.330	64.240	1.00	34.25
ATOM	9127	OH2	VAL	1352	-14.387	1.313	64.521	1.00	34.77
ATOM	9128	C	VAL	1352	-15.120	1.337	64.400	1.00	34.23
ATOM	9129	O	VAL	1352	-15.623	1.555	64.535	1.00	32.03
ATOM	9130	N	GLN	1353	-16.159	1.235	64.411	1.00	33.17
ATOM	9131	CA	GLN	1353	-17.122	1.865	64.533	1.00	33.42
ATOM	9132	CB	GLN	1353	-16.683	1.214	64.082	1.00	33.30
ATOM	9133	CG	GLN	1353	-16.133	3.560	64.230	1.00	37.00
ATOM	9134	CD	GLN	1353	-15.333	3.407	64.920	1.00	37.41
ATOM	9135	OH1	GLN	1353	-14.130	1.164	64.400	1.00	36.31
ATOM	9136	NH2	GLN	1353	-15.655	1.102	64.439	1.00	39.06
ATOM	9137	C	GLN	1353	-13.658	1.933	64.508	1.00	37.00
ATOM	9138	O	GLN	1353	-13.833	1.906	62.284	1.00	32.20
ATOM	9139	N	GLY	1354	-13.497	1.819	64.123	1.00	32.11
ATOM	9140	CA	GLY	1354	-20.901	2.443	64.207	1.00	31.69
ATOM	9141	C	GLY	1354	-21.624	2.931	64.433	1.00	31.85
ATOM	9142	O	GLY	1354	-22.831	1.658	64.634	1.00	33.12
ATOM	9143	N	ARG	1355	-20.112	3.646	64.327	1.00	33.72
ATOM	9144	CA	ARG	1355	-21.393	3.168	64.538	1.00	34.21
ATOM	9145	CB	ARG	1355	-20.420	4.510	64.573	1.00	36.12
ATOM	9146	CG	ARG	1355	-13.601	3.463	66.113	1.00	37.49
ATOM	9147	CD	ARG	1355	-19.632	3.536	64.636	1.00	37.55
ATOM	9148	NH	ARG	1355	-13.923	2.411	64.166	1.00	38.12
ATOM	9149	CE	ARG	1355	-13.691	1.133	64.505	1.00	37.63
ATOM	9150	NH1	ARG	1355	-15.814	3.136	64.137	2.00	33.33
ATOM	9151	NH2	ARG	1355	-13.336	1.210	64.905	1.00	38.50
ATOM	9152	C	ARG	1355	-22.141	3.253	64.111	1.00	34.38
ATOM	9153	O	ARG	1355	-21.155	3.236	64.601	1.00	31.57
ATOM	9154	N	GLY	1356	-23.633	3.342	64.634	1.00	31.33
ATOM	9155	CA	GLY	1356	-21.633	3.233	64.166	1.00	34.39
ATOM	9156	C	GLY	1356	-23.633	3.341	64.616	1.00	34.36
ATOM	9157	O	GLY	1356	-23.333	3.344	64.336	1.00	37.09
ATOM	9158	N	ASP	1357	-23.704	3.741	64.133	1.00	35.34
ATOM	9159	CA	ASP	1357	-23.233	3.479	64.157	1.00	35.93
ATOM	9160	CB	ASP	1357	-23.633	3.342	64.156	1.00	38.36
ATOM	9161	CG	ASP	1357	-23.633	3.663	64.663	1.00	39.00
ATOM	9162	OH1	ASP	1357	-23.633	3.478	64.134	1.00	41.41
ATOM	9163	OH2	ASP	1357	-33.133	1.234	64.634	1.00	42.41
ATOM	9164	C	ASP	1357	-23.133	3.333	64.133	1.00	33.60
ATOM	9165	O	ASP	1357	-23.444	3.333	59.933	1.00	34.09
ATOM	9166	N	GLU	1358	-23.710	3.333	64.133	1.00	31.82
ATOM	9167	CA	GLU	1358	-23.133	3.333	59.433	1.00	31.76
ATOM	9168	CB	GLU	1358	-23.133	3.333	59.433	1.00	31.76
ATOM	9169	CG	GLU	1358	-23.133	10.333	59.133	1.00	41.33
ATOM	9170	CD	GLU	1358	-23.133	11.333	59.133	1.00	43.33
ATOM	9171	OH1	GLU	1358	-23.133	11.333	59.133	1.00	43.33
ATOM	9172	OH2	GLU	1358	-23.133	12.333	59.133	1.00	47.33
ATOM	9173	C	GLU	1358	-23.133	11.333	59.133	1.00	41.33
ATOM	9174	O	GLU	1358	-23.133	11.333	59.133	1.00	39.33
ATOM	9175	N	ALA	1359	-24.133	3.333	59.133	1.00	28.33
ATOM	9176	CA	ALA	1359	-23.133	3.333	59.133	1.00	28.33
ATOM	9177	CB	ALA	1359	-23.133	3.333	60.133	1.00	27.62
ATOM	9178	C	ALA	1359	-23.133	4.333	59.887	1.00	25.62
ATOM	9179	O	ALA	1359	-23.133	4.333	59.910	1.00	25.34
ATOM	9180	N	GLY	1360	-24.133	4.333	59.133	1.00	22.36
ATOM	9181	CA	GLY	1360	-23.133	3.333	59.133	1.00	22.42
ATOM	9182	C	GLY	1360	-23.633	3.033	59.133	1.00	23.33
ATOM	9183	O	GLY	1360	-23.633	1.133	59.133	1.00	21.36
ATOM	9184	N	ASP	1361	-23.933	4.033	58.133	1.00	23.33
ATOM	9185	CA	ASP	1361	-23.809	4.033	57.033	1.00	24.90
ATOM	9186	CB	ASP	1361	-23.776	5.133	57.087	1.00	25.13
ATOM	9187	CG	ASP	1361	-23.778	5.109	58.211	1.00	25.96
ATOM	9188	OH1	ASP	1361	-30.037	3.963	58.634	1.00	24.04
ATOM	9189	OH2	ASP	1361	-30.312	6.148	58.662	1.00	26.75
ATOM	9190	C	ASP	1361	-27.001	4.128	55.715	1.00	24.67
ATOM	9191	O	ASP	1361	-27.418	3.599	54.682	1.00	23.97

ATOM	9192	N	GLN	1-62	-23.843	4.775	54.763	1.00	23.06
ATOM	9193	CA	GLN	1-62	-19.021	4.882	54.503	1.00	23.44
ATOM	9194	CB	GLN	1-62	-23.892	5.996	54.762	1.00	23.04
ATOM	9195	CG	GLN	1-62	-23.177	6.176	53.474	1.00	23.55
ATOM	9196	CD	GLN	1-62	-24.113	6.925	52.464	1.00	24.06
ATOM	9197	OE1	GLN	1-62	-24.758	7.433	52.760	1.00	23.96
ATOM	9198	NE2	GLN	1-62	-24.192	6.345	51.266	1.00	24.63
ATOM	9199	O	GLN	1-62	-24.439	3.519	54.194	1.00	23.54
ATOM	9200	O	GLN	1-62	-24.439	3.517	53.019	1.00	23.64
ATOM	9201	N	LEU	1-63	-23.984	2.764	55.190	1.00	24.10
ATOM	9202	CA	LEU	1-63	-23.413	1.441	54.932	1.00	25.78
ATOM	9203	CB	LEU	1-63	-22.843	0.131	56.214	1.00	27.37
ATOM	9204	CG	LEU	1-63	-21.433	1.337	55.715	1.00	31.02
ATOM	9205	CH1	LEU	1-63	-21.073	0.539	57.448	1.00	29.46
ATOM	9206	CH2	LEU	1-63	-20.432	1.194	55.828	1.00	30.13
ATOM	9207	C	LEU	1-63	-21.433	0.133	54.454	1.00	27.61
ATOM	9208	O	LEU	1-63	-24.186	-0.115	53.478	1.00	24.86
ATOM	9209	N	LEU	1-64	-25.833	-0.416	51.465	1.00	26.26
ATOM	9210	CA	LEU	1-64	-25.830	-0.433	51.486	1.00	26.78
ATOM	9211	CB	LEU	1-64	-27.940	-0.170	55.455	1.00	29.05
ATOM	9212	CG	LEU	1-64	-24.871	-1.135	55.466	1.00	29.13
ATOM	9213	CH1	LEU	1-64	-23.951	-1.133	56.470	1.00	33.01
ATOM	9214	CH2	LEU	1-64	-23.438	-1.709	54.117	1.00	31.12
ATOM	9215	C	LEU	1-64	-26.936	-0.081	53.430	1.00	24.12
ATOM	9216	O	LEU	1-64	-27.114	-0.667	52.180	1.00	21.75
ATOM	9217	N	SEF	1-65	-27.041	1.116	52.743	1.00	24.25
ATOM	9218	CA	SEF	1-65	-27.337	1.636	51.399	1.00	23.74
ATOM	9219	CB	SEF	1-65	-25.440	3.026	51.383	1.00	26.49
ATOM	9220	OG	SEF	1-65	-27.711	3.710	50.085	1.00	30.28
ATOM	9221	C	SEF	1-65	-26.238	1.120	50.436	1.00	29.66
ATOM	9222	O	SEF	1-65	-26.531	0.231	49.433	1.00	17.79
ATOM	9223	N	ASF	1-66	-27.033	1.237	53.431	1.00	19.94
ATOM	9224	CA	ASF	1-66	-27.992	3.071	53.413	1.00	18.22
ATOM	9225	CB	ASF	1-66	-27.564	1.389	54.045	1.00	19.61
ATOM	9226	CG	ASF	1-66	-25.234	2.190	52.153	1.00	19.36
ATOM	9227	CH1	ASF	1-66	-23.931	1.130	49.452	1.00	20.14
ATOM	9228	CH2	ASF	1-66	-21.538	3.270	51.384	1.00	19.72
ATOM	9229	C	ASF	1-66	-23.914	-0.117	49.434	1.00	16.69
ATOM	9230	O	ASF	1-66	-25.643	-1.031	48.723	1.00	11.02
ATOM	9231	N	ALA	1-67	-24.216	-1.131	54.384	1.00	11.72
ATOM	9232	CA	ALA	1-67	-24.233	-0.715	54.363	1.00	16.03
ATOM	9233	CB	ALA	1-67	-24.538	-1.532	52.116	1.00	16.32
ATOM	9234	C	ALA	1-67	-27.285	-1.211	49.717	1.00	17.68
ATOM	9235	O	ALA	1-67	-24.941	-1.632	49.773	1.00	15.30
ATOM	9236	N	LEU	1-68	-24.436	-2.538	49.445	1.00	16.33
ATOM	9237	CA	LEU	1-68	-27.473	-2.937	49.359	1.00	15.83
ATOM	9238	CB	LEU	1-68	-26.775	-2.211	49.111	1.00	17.90
ATOM	9239	CG	LEU	1-68	-26.457	-2.032	50.163	1.00	18.04
ATOM	9240	CH1	LEU	1-68	-26.411	-1.071	50.310	1.00	21.56
ATOM	9241	CH2	LEU	1-68	-26.177	-1.030	49.391	1.00	18.80
ATOM	9242	C	LEU	1-68	-27.093	-1.437	47.663	1.00	15.44
ATOM	9243	O	LEU	1-68	-27.008	-3.139	49.389	1.00	17.08
ATOM	9244	N	ALA	1-69	-26.407	-1.533	49.163	1.00	15.14
ATOM	9245	CA	ALA	1-69	-25.963	-1.081	49.061	1.00	15.71
ATOM	9246	CB	ALA	1-69	-25.793	-1.600	49.163	1.00	16.16
ATOM	9247	C	ALA	1-69	-24.848	-1.114	49.377	1.00	15.06
ATOM	9248	O	ALA	1-69	-24.979	-1.963	49.170	1.00	13.93
ATOM	9249	N	LEU	1-70	-24.021	-2.201	49.179	1.00	15.16
ATOM	9250	CA	LEU	1-70	-22.990	-3.163	49.161	1.00	15.17
ATOM	9251	CB	LEU	1-70	-22.961	-3.389	49.160	1.00	17.64
ATOM	9252	CG	LEU	1-70	-21.111	-2.130	49.231	1.00	17.64
ATOM	9253	CH1	LEU	1-70	-20.257	-2.510	48.450	1.00	14.56
ATOM	9254	CH2	LEU	1-70	-20.276	-1.785	49.077	1.00	17.55
ATOM	9255	C	LEU	1-70	-23.639	-4.395	45.124	1.00	16.16
ATOM	9256	O	LEU	1-70	-23.306	-4.917	44.160	1.00	14.48
ATOM	9257	N	GLU	1-71	-24.573	-4.911	49.120	1.00	15.63
ATOM	9258	CA	GLU	1-71	-25.269	-6.141	49.147	1.00	16.46
ATOM	9259	CB	GLU	1-71	-26.264	-6.540	46.745	1.00	17.16
ATOM	9260	CG	GLU	1-71	-27.114	-7.735	46.381	1.00	20.10
ATOM	9261	CD	GLU	1-71	-28.084	-8.086	47.491	1.00	19.17
ATOM	9262	OE1	GLU	1-71	-28.876	-7.214	47.897	1.00	18.19
ATOM	9263	OE2	GLU	1-71	-28.029	-9.248	47.964	1.00	23.87
ATOM	9264	C	GLU	1-71	-26.007	-5.960	44.519	1.00	16.54
ATOM	9265	O	GLU	1-71	-25.894	-6.769	44.409	1.00	16.17
ATOM	9266	N	ALA	1-72	-26.757	-4.869	44.705	1.00	16.06
ATOM	9267	CA	ALA	1-72	-27.516	-4.601	47.987	1.00	16.73
ATOM	9268	CB	ALA	1-72	-28.354	-3.328	42.161	1.00	16.45

ATOM	9209	C	ALA	1072	-22.355	-4.460	41.780	1.00	14.56
ATOM	9210	O	ALA	1072	-22.053	-4.791	40.609	1.00	15.51
ATOM	9211	N	ALA	1073	-22.377	-3.961	42.044	1.00	14.61
ATOM	9212	CA	ALA	1073	-24.392	-3.753	40.907	1.00	14.07
ATOM	9213	CB	ALA	1073	-23.253	-3.353	41.507	1.00	15.09
ATOM	9214	C	ALA	1073	-23.801	-3.372	40.477	1.00	14.66
ATOM	9215	O	ALA	1073	-23.032	-3.133	39.386	1.00	15.12
ATOM	9216	N	LY	1074	-23.935	-3.137	41.203	1.00	14.12
ATOM	9217	CA	LY	1074	-23.417	-3.177	40.816	1.00	14.74
ATOM	9218	C	LY	1074	-20.460	-3.177	41.789	1.00	15.13
ATOM	9219	O	LY	1074	-20.046	-3.280	41.513	1.00	17.15
ATOM	9220	N	ALA	1075	-23.041	-3.460	42.384	1.00	15.09
ATOM	9221	CA	ALA	1075	-23.167	-3.303	43.847	1.00	15.01
ATOM	9222	CB	ALA	1075	-20.941	-3.167	45.781	1.00	12.05
ATOM	9223	C	ALA	1075	-23.035	-3.303	44.789	1.00	15.30
ATOM	9224	O	ALA	1075	-23.033	-3.377	44.603	1.00	17.07
ATOM	9225	N	GLN	1076	-21.011	-1.349	44.783	1.00	14.08
ATOM	9226	CA	GLN	1076	-21.531	-1.377	44.783	1.00	14.08
ATOM	9227	CB	GLN	1076	-21.010	-1.387	43.887	1.00	14.90
ATOM	9228	CG	GLN	1076	-21.536	-1.387	43.887	1.00	20.73
ATOM	9229	CH	GLN	1076	-20.939	-1.387	41.774	1.00	21.00
ATOM	9230	CD1	GLN	1076	-21.117	-1.387	41.774	1.00	20.64
ATOM	9231	NS2	GLN	1076	-20.939	-1.387	40.688	1.00	20.71
ATOM	9232	C	GLN	1076	-21.127	-1.387	40.688	1.00	17.05
ATOM	9233	O	GLN	1076	-21.564	-1.387	40.688	1.00	14.05
ATOM	9234	N	LEU	1077	-20.411	-1.138	46.883	1.00	14.83
ATOM	9235	CA	LEU	1077	-19.933	-1.138	48.187	1.00	16.50
ATOM	9236	CB	LEU	1077	-18.635	-1.138	48.789	1.00	20.20
ATOM	9237	CG	LEU	1077	-18.117	-1.138	48.787	1.00	21.44
ATOM	9238	CD1	LEU	1077	-17.441	-1.138	48.787	1.00	21.86
ATOM	9239	CD2	LEU	1077	-19.179	-1.138	48.787	1.00	21.73
ATOM	9240	C	LEU	1077	-19.574	-1.138	48.787	1.00	18.17
ATOM	9241	O	LEU	1077	-19.404	-1.138	48.787	1.00	18.20
ATOM	9242	N	LEU	1078	-19.734	-1.138	50.133	1.00	17.03
ATOM	9243	CA	LEU	1078	-19.415	-1.138	50.133	1.00	15.26
ATOM	9244	CB	LEU	1078	-20.750	-1.138	51.787	1.00	17.07
ATOM	9245	CG	LEU	1078	-20.684	-1.138	51.787	1.00	18.89
ATOM	9246	CD1	LEU	1078	-19.401	-1.138	51.787	1.00	17.13
ATOM	9247	CD2	LEU	1078	-21.061	-1.138	51.787	1.00	14.97
ATOM	9248	C	LEU	1078	-18.679	-1.138	51.787	1.00	17.81
ATOM	9249	O	LEU	1078	-18.048	-1.138	51.787	1.00	15.07
ATOM	9250	N	VAL	1079	-17.533	-1.138	51.787	1.00	16.10
ATOM	9251	CA	VAL	1079	-16.848	-1.138	51.787	1.00	16.20
ATOM	9252	CB	VAL	1079	-15.207	-1.138	51.787	1.00	14.81
ATOM	9253	CD1	VAL	1079	-14.607	-1.138	54.789	1.00	14.90
ATOM	9254	CD2	VAL	1079	-14.830	-1.138	51.787	1.00	13.84
ATOM	9255	C	VAL	1079	-17.245	-1.138	54.787	1.00	14.21
ATOM	9256	O	VAL	1079	-17.366	-1.138	51.787	1.00	13.40
ATOM	9257	N	LEU	1080	-17.604	-1.200	51.787	1.00	17.11
ATOM	9258	CA	LEU	1080	-17.689	-1.200	50.603	1.00	17.31
ATOM	9259	CB	LEU	1080	-19.118	-1.443	51.787	1.00	20.21
ATOM	9260	CG	LEU	1080	-20.411	-1.700	50.603	1.00	20.14
ATOM	9261	CD1	LEU	1080	-21.676	-1.200	51.787	1.00	20.17
ATOM	9262	CD2	LEU	1080	-20.774	-1.200	50.603	1.00	20.64
ATOM	9263	C	LEU	1080	-16.801	-1.200	51.787	1.00	17.90
ATOM	9264	O	LEU	1080	-16.677	-1.200	50.603	1.00	17.27
ATOM	9265	N	GLU	1081	-16.410	-1.035	51.787	1.00	18.14
ATOM	9266	CA	GLU	1081	-15.018	-1.297	50.603	1.00	18.15
ATOM	9267	CB	GLU	1081	-15.733	-1.700	50.603	1.00	18.60
ATOM	9268	CG	GLU	1081	-12.503	-1.399	50.603	1.00	18.98
ATOM	9269	CD	GLU	1081	-11.334	-1.485	50.603	1.00	21.41
ATOM	9270	OE1	GLU	1081	-11.336	-1.456	51.042	1.00	20.29
ATOM	9271	OE2	GLU	1081	-10.112	-1.579	50.603	1.00	21.00
ATOM	9272	C	GLU	1081	-15.322	-1.910	59.995	1.00	18.95
ATOM	9273	O	GLU	1081	-15.451	-1.725	59.725	1.00	17.56
ATOM	9274	N	CYS	1082	-15.094	-1.395	61.242	1.00	18.95
ATOM	9275	CA	CYS	1082	-15.108	-1.416	62.388	1.00	20.18
ATOM	9276	CB	CYS	1082	-15.858	-1.676	62.501	1.00	20.94
ATOM	9277	CG	CYS	1082	-12.444	-1.736	62.885	1.00	21.87
ATOM	9278	C	CYS	1082	-16.444	-2.488	62.483	1.00	19.45
ATOM	9279	O	CYS	1082	-16.181	-1.279	62.191	1.00	19.01
ATOM	9280	N	VAL	1083	-17.527	-3.038	62.631	1.00	20.89
ATOM	9281	CA	VAL	1083	-18.755	-1.271	62.635	1.00	21.85
ATOM	9282	CB	VAL	1083	-19.513	-1.440	61.324	1.00	23.10
ATOM	9283	CG1	VAL	1083	-20.322	-1.785	61.286	1.00	18.79
ATOM	9284	CG2	VAL	1083	-20.471	-1.291	61.113	1.00	26.10
ATOM	9285	C	VAL	1083	-19.476	-2.863	63.809	1.00	22.30

ATOM	9347	C	VAL	1384	-22.834	-4.042	64.131	1.00	27.64
ATOM	9347	N	PRO	1384	-22.832	-4.050	64.154	1.00	27.79
ATOM	9348	CD	PRO	1384	-22.847	-4.031	64.232	1.00	27.90
ATOM	9349	CA	PRO	1384	-22.831	-3.968	64.544	1.00	28.21
ATOM	9350	CB	PRO	1384	-22.840	-4.411	65.351	1.00	28.37
ATOM	9351	CG	PRO	1384	-22.862	-4.556	64.733	1.00	28.51
ATOM	9352	C	PRO	1384	-22.809	-3.941	65.101	1.00	28.41
ATOM	9353	O	PRO	1384	-22.470	-3.414	65.961	1.00	28.74
ATOM	9354	N	VAL	1385	-22.840	-4.408	65.003	1.00	28.71
ATOM	9355	CA	VAL	1385	-22.856	-4.050	65.112	1.00	28.80
ATOM	9356	CB	VAL	1385	-22.831	-4.011	65.991	1.00	27.88
ATOM	9357	CD1	VAL	1385	-22.836	-4.061	65.031	1.00	27.79
ATOM	9358	CD2	VAL	1385	-22.836	-4.061	65.031	1.00	27.93
ATOM	9359	C	VAL	1385	-22.863	-3.784	65.111	1.00	27.91
ATOM	9360	O	VAL	1385	-24.112	-4.011	64.151	1.00	27.28
ATOM	9361	N	LEU	1386	-22.831	-3.733	65.111	1.00	27.87
ATOM	9362	CA	LEU	1386	-22.821	-3.711	65.111	1.00	28.31
ATOM	9363	CB	LEU	1386	-22.817	-3.113	65.111	1.00	21.43
ATOM	9364	CD	LEU	1386	-22.812	-2.833	65.111	1.00	27.12
ATOM	9365	CD1	LEU	1386	-22.817	-4.111	65.111	1.00	29.44
ATOM	9366	CD2	LEU	1386	-22.812	-4.051	65.111	1.00	21.13
ATOM	9367	OE2	LEU	1386	-22.831	-4.111	65.111	1.00	40.64
ATOM	9368	C	LEU	1386	-22.812	-4.033	65.111	1.00	27.04
ATOM	9369	O	LEU	1386	-22.817	-4.001	65.111	1.00	27.01
ATOM	9370	N	LEU	1387	-22.853	-3.211	65.111	1.00	27.86
ATOM	9371	CA	LEU	1387	-22.810	-2.811	61.111	1.00	26.71
ATOM	9372	CB	LEU	1387	-24.113	-1.811	61.111	1.00	19.38
ATOM	9373	CG	LEU	1387	-24.112	-4.761	60.111	1.00	21.46
ATOM	9374	CD1	LEU	1387	-24.114	0.111	60.111	1.00	19.19
ATOM	9375	CD2	LEU	1387	-24.116	-1.861	59.111	1.00	23.01
ATOM	9376	C	LEU	1387	-24.113	-4.111	61.111	1.00	26.22
ATOM	9377	O	LEU	1387	-24.117	-4.111	60.111	1.00	24.86
ATOM	9378	N	ALA	1388	-22.882	-4.991	61.111	1.00	23.74
ATOM	9379	CA	ALA	1388	-22.858	-4.111	60.111	1.00	23.61
ATOM	9380	CB	ALA	1388	-22.816	-4.011	61.111	1.00	23.64
ATOM	9381	C	ALA	1388	-24.141	-1.111	60.111	1.00	23.83
ATOM	9382	O	ALA	1388	-24.101	-2.511	59.111	1.00	19.60
ATOM	9383	N	LYS	1389	-22.864	-4.011	61.111	1.00	27.43
ATOM	9384	CA	LYS	1389	-22.814	-3.811	61.111	1.00	27.07
ATOM	9385	CB	LYS	1389	-22.813	-3.611	61.111	1.00	26.12
ATOM	9386	CG	LYS	1389	-22.817	-4.111	64.111	1.00	28.10
ATOM	9387	CD	LYS	1389	-22.813	-4.011	61.111	1.00	21.14
ATOM	9388	CE	LYS	1389	-22.816	-4.111	60.111	1.00	24.14
ATOM	9389	NZ	LYS	1389	-22.818	-4.111	61.111	1.00	24.09
ATOM	9390	C	LYS	1389	-22.816	-3.711	60.111	1.00	26.00
ATOM	9391	O	LYS	1389	-22.812	-3.911	59.111	1.00	28.06
ATOM	9392	N	ARG	1390	-22.810	-4.911	60.111	1.00	28.11
ATOM	9393	CA	ARG	1390	-22.810	-4.111	59.111	1.00	28.02
ATOM	9394	CB	ARG	1390	-22.816	-4.011	59.111	1.00	28.15
ATOM	9395	CG	ARG	1390	-22.810	-3.111	61.111	1.00	21.12
ATOM	9396	CD	ARG	1390	-30.101	-1.111	61.111	1.00	21.18
ATOM	9397	CE	ARG	1390	-30.107	-1.111	60.111	1.00	24.15
ATOM	9398	CZ	ARG	1390	-30.109	-0.111	60.111	1.00	23.10
ATOM	9399	NH1	ARG	1390	-22.816	0.011	61.111	1.00	21.12
ATOM	9400	NH2	ARG	1390	-22.816	0.011	59.111	1.00	21.11
ATOM	9401	C	ARG	1390	-22.816	0.011	59.111	1.00	21.15
ATOM	9402	O	ARG	1390	-22.816	0.011	59.111	1.00	21.10
ATOM	9403	N	ILE	1391	-22.811	-5.401	59.111	1.00	24.12
ATOM	9404	CA	ILE	1391	-22.816	-5.111	59.111	1.00	27.75
ATOM	9405	CB	ILE	1391	-22.816	-5.211	59.111	1.00	24.19
ATOM	9406	CD2	ILE	1391	-22.817	-5.111	59.111	1.00	21.18
ATOM	9407	CD1	ILE	1391	-22.816	-5.111	59.111	1.00	24.18
ATOM	9408	CE1	ILE	1391	-22.816	-3.211	59.111	1.00	20.17
ATOM	9409	C	ILE	1391	-22.816	-3.111	59.111	1.00	21.12
ATOM	9410	O	ILE	1391	-22.823	-3.211	59.111	1.00	22.17
ATOM	9411	N	THR	1392	-22.810	-8.111	59.111	1.00	23.17
ATOM	9412	CA	THR	1392	-22.811	-9.461	59.111	1.00	24.19
ATOM	9413	CB	THR	1392	-22.816	-10.111	59.111	1.00	25.11
ATOM	9414	CD1	THR	1392	-22.810	-10.041	59.111	1.00	24.15
ATOM	9415	CD2	THR	1392	-22.816	-11.641	59.111	1.00	21.10
ATOM	9416	C	THR	1392	-22.813	-9.841	59.111	1.00	25.12
ATOM	9417	O	THR	1392	-22.817	-10.651	59.111	1.00	24.15
ATOM	9418	N	GLU	1393	-22.816	-9.251	59.111	1.00	25.11
ATOM	9419	CA	GLU	1393	-30.505	-9.540	59.111	1.00	28.10
ATOM	9420	CB	GLU	1393	-31.358	-9.159	59.111	1.00	30.15
ATOM	9421	CG	GLU	1393	-31.271	-10.140	59.111	1.00	35.02
ATOM	9422	CD	GLU	1393	-32.129	-9.716	60.111	1.00	38.15

ATOM	9437	BI	GLU	1393	-83.1835	-8.4449	60.0689	1.00	40.37
ATOM	9438	HE2	GLU	1393	-83.1835	-9.652	61.435	1.00	39.76
ATOM	9439	C	GLU	1393	-83.1835	-9.818	55.510	1.00	27.06
ATOM	9440	O	GLU	1393	-83.1835	-9.337	54.020	1.00	39.44
ATOM	9441	N	ALA	1394	-80.511	-8.627	55.154	1.00	34.47
ATOM	9442	CA	ALA	1394	-80.511	-8.847	54.110	1.00	24.04
ATOM	9443	CB	ALA	1394	-80.511	-8.394	54.165	1.00	22.66
ATOM	9444	C	ALA	1394	-80.447	-7.411	52.182	1.00	34.13
ATOM	9445	O	ALA	1394	-81.167	-7.322	51.153	1.00	37.55
ATOM	9446	N	LEU	1395	-79.270	-7.095	52.110	1.00	23.16
ATOM	9447	CA	LEU	1395	-78.842	-8.551	51.111	1.00	22.35
ATOM	9448	CB	LEU	1395	-77.113	-8.307	51.117	1.00	23.06
ATOM	9449	C	LEU	1395	-76.673	-8.483	51.113	1.00	24.33
ATOM	9450	CD1	LEU	1395	-75.155	-8.834	51.117	1.00	23.83
ATOM	9451	CD2	LEU	1395	-77.336	-8.016	50.113	1.00	26.73
ATOM	9452	O	LEU	1395	-76.133	-10.035	51.112	1.00	20.83
ATOM	9453	C	LEU	1395	-78.113	-10.115	52.113	1.00	20.06
ATOM	9440	N	ALA	1396	-79.111	-10.115	50.113	1.00	20.41
ATOM	9441	CA	ALA	1396	-79.110	-11.105	49.116	1.00	21.23
ATOM	9442	CB	ALA	1396	-80.111	-11.117	48.113	1.00	19.07
ATOM	9443	C	ALA	1396	-78.115	-11.113	49.112	1.00	20.66
ATOM	9444	O	ALA	1396	-77.118	-12.113	49.113	1.00	19.21
ATOM	9445	N	ILE	1397	-78.115	-11.123	49.116	1.00	19.73
ATOM	9446	CA	ILE	1397	-75.115	-11.115	48.113	1.00	20.21
ATOM	9447	CB	ILE	1397	-74.111	-11.113	48.113	1.00	19.11
ATOM	9448	CS2	ILE	1397	-75.113	-11.113	46.112	1.00	19.43
ATOM	9449	CS1	ILE	1397	-74.111	-10.113	48.115	1.00	17.71
ATOM	9450	CD1	ILE	1397	-73.118	-9.111	48.117	1.00	18.81
ATOM	9451	C	ILE	1397	-75.113	-11.113	50.113	1.00	20.56
ATOM	9452	O	ILE	1397	-75.113	-11.113	51.113	1.00	21.73
ATOM	9453	N	PRO	1398	-74.115	-11.113	50.113	1.00	22.06
ATOM	9454	CD	PRO	1398	-73.112	-14.113	49.112	1.00	22.24
ATOM	9455	CA	PRO	1398	-73.113	-13.111	51.111	1.00	22.34
ATOM	9456	CB	PRO	1398	-72.112	-15.113	51.113	1.00	23.11
ATOM	9457	CG	PRO	1398	-72.113	-15.111	49.112	1.00	25.11
ATOM	9458	C	PRO	1398	-72.113	-11.113	52.113	1.00	21.11
ATOM	9459	O	PRO	1398	-71.112	-11.111	51.113	1.00	21.71
ATOM	9460	N	VAL	1399	-72.111	-11.113	53.113	1.00	21.11
ATOM	9461	CA	VAL	1399	-71.113	-11.111	54.111	1.00	20.11
ATOM	9462	CB	VAL	1399	-70.111	-10.113	54.111	1.00	21.11
ATOM	9463	CG1	VAL	1399	-71.113	-9.111	55.113	1.00	20.11
ATOM	9464	CG2	VAL	1399	-72.113	-9.113	54.111	1.00	21.11
ATOM	9465	C	VAL	1399	-70.113	-12.113	55.111	1.00	20.44
ATOM	9466	O	VAL	1399	-71.113	-12.113	55.111	1.00	19.11
ATOM	9467	N	ILE	1400	-70.113	-12.113	54.111	1.00	20.11
ATOM	9468	CA	ILE	1400	-70.113	-12.113	55.111	1.00	19.11
ATOM	9469	CB	ILE	1400	-70.113	-12.113	54.111	1.00	20.11
ATOM	9470	CS2	ILE	1400	-70.113	-12.113	55.111	1.00	20.11
ATOM	9471	CS1	ILE	1400	-70.113	-12.113	55.111	1.00	22.11
ATOM	9472	CD1	ILE	1400	-70.113	-14.113	52.113	1.00	24.11
ATOM	9473	C	ILE	1400	-70.113	-11.113	56.113	1.00	19.11
ATOM	9474	O	ILE	1400	-70.113	-9.113	56.113	1.00	17.11
ATOM	9475	N	GLY	1401	-70.113	-11.113	57.113	1.00	17.11
ATOM	9476	CA	GLY	1401	-70.113	-11.113	58.113	1.00	17.11
ATOM	9477	C	GLY	1401	-70.113	-10.113	59.113	1.00	17.11
ATOM	9478	O	GLY	1401	-70.113	-11.113	59.113	1.00	18.11
ATOM	9479	N	ILE	1402	-70.113	-9.113	58.113	1.00	17.11
ATOM	9480	CA	ILE	1402	-70.113	-9.113	60.113	1.00	19.11
ATOM	9481	CB	ILE	1402	-70.113	-9.113	59.113	1.00	17.11
ATOM	9482	CG2	ILE	1402	-70.113	-8.113	58.113	1.00	19.11
ATOM	9483	CG1	ILE	1402	-70.113	-9.113	60.113	1.00	22.11
ATOM	9484	CD1	ILE	1402	-70.113	-9.113	59.113	1.00	21.11
ATOM	9485	C	ILE	1402	-70.113	-8.113	61.113	1.00	17.11
ATOM	9486	O	ILE	1402	-70.113	-7.113	61.113	1.00	21.11
ATOM	9487	N	GLY	1403	-70.113	-8.113	62.113	1.00	18.11
ATOM	9488	CA	GLY	1403	-70.113	-7.113	63.113	1.00	19.11
ATOM	9489	C	GLY	1403	-70.113	-7.113	63.113	1.00	20.11
ATOM	9490	O	GLY	1403	-70.113	-5.113	63.113	1.00	20.11
ATOM	9491	N	ALA	1404	-70.113	-7.113	63.113	1.00	20.11
ATOM	9492	CA	ALA	1404	-70.113	-7.113	63.113	1.00	22.11
ATOM	9493	CB	ALA	1404	-70.113	-7.113	61.113	1.00	24.11
ATOM	9494	C	ALA	1404	-70.113	-8.113	63.113	1.00	24.11
ATOM	9495	O	ALA	1404	-70.113	-8.113	63.113	1.00	24.11
ATOM	9496	N	GLY	1405	-70.113	-9.113	64.113	1.00	24.11
ATOM	9497	CA	GLY	1405	-70.113	-10.113	65.113	1.00	25.11
ATOM	9498	C	GLY	1405	-70.113	-11.113	64.113	1.00	26.11
ATOM	9499	O	GLY	1405	-70.113	-11.113	63.113	1.00	27.11

ATOM	9501	N	ASN	1406	-20.884	-12.160	65.1097	1.00	25.69
ATOM	9502	CA	ASN	1406	-11.144	-11.670	64.701	1.00	25.75
ATOM	9503	CB	ASN	1406	-21.144	-11.716	65.081	1.00	26.59
ATOM	9504	OG	ASN	1406	-22.133	-13.641	66.745	1.00	28.41
ATOM	9505	OG1	ASN	1406	-22.133	-13.585	67.470	1.00	28.28
ATOM	9506	ND	ASN	1406	-11.142	-11.481	66.760	1.00	25.74
ATOM	9507	C	ASN	1406	-22.141	-11.713	63.952	1.00	24.77
ATOM	9508	O	ASN	1406	-22.936	-13.787	61.577	1.00	25.44
ATOM	9509	N	VAL	1407	-13.971	-12.541	61.723	1.00	24.74
ATOM	9510	CA	VAL	1407	-24.834	-11.111	61.033	1.00	25.37
ATOM	9511	CB	VAL	1407	-25.064	-11.113	61.403	1.00	25.71
ATOM	9512	CG1	VAL	1407	-25.595	-11.111	61.393	1.00	31.10
ATOM	9513	CG2	VAL	1407	-25.010	-10.917	61.411	1.00	27.15
ATOM	9514	C	VAL	1407	-24.234	-11.143	61.311	1.00	25.71
ATOM	9515	O	VAL	1407	-25.223	-11.591	60.191	1.00	24.08
ATOM	9516	N	THR	1408	-22.441	-11.133	61.121	1.00	23.19
ATOM	9517	CA	THR	1408	-22.453	-11.110	59.191	1.00	21.63
ATOM	9518	CB	THR	1408	-21.375	-11.381	59.133	1.00	20.71
ATOM	9519	CG1	THR	1408	-20.834	-11.143	61.164	1.00	19.12
ATOM	9520	CG2	THR	1408	-21.401	-10.382	59.469	1.00	17.17
ATOM	9521	C	THR	1408	-21.812	-11.157	59.103	1.00	21.53
ATOM	9522	O	THR	1408	-22.871	-13.567	59.109	1.00	24.16
ATOM	9523	N	ASP	1409	-22.874	-14.001	59.133	1.00	19.58
ATOM	9524	CA	ASP	1409	-22.942	-15.436	59.157	1.00	19.91
ATOM	9525	CB	ASP	1409	-23.371	-15.204	59.191	1.00	21.36
ATOM	9526	CG	ASP	1409	-24.712	-14.609	59.157	1.00	22.41
ATOM	9527	OD1	ASP	1409	-25.693	-15.186	59.197	1.00	22.97
ATOM	9528	OD2	ASP	1409	-24.786	-13.753	54.199	1.00	25.06
ATOM	9529	C	ASP	1409	-21.600	-16.112	59.111	1.00	19.51
ATOM	9530	O	ASP	1409	-21.533	-17.342	59.136	1.00	18.44
ATOM	9531	N	GLY	1410	-20.534	-15.343	59.113	1.00	21.88
ATOM	9532	CA	GLY	1410	-19.204	-15.600	59.159	1.00	20.44
ATOM	9533	C	GLY	1410	-18.249	-15.003	59.124	1.00	19.65
ATOM	9534	O	GLY	1410	-19.589	-14.013	59.094	1.00	18.97
ATOM	9535	N	GLN	1411	-17.090	-15.643	59.133	1.00	19.88
ATOM	9536	CA	GLN	1411	-16.911	-15.001	59.116	1.00	20.00
ATOM	9537	CB	GLN	1411	-15.917	-15.701	60.117	1.00	19.91
ATOM	9538	CG	GLN	1411	-14.981	-15.606	60.117	1.00	19.40
ATOM	9539	CD	GLN	1411	-17.391	-14.209	60.101	1.00	16.91
ATOM	9540	OE1	GLN	1411	-14.414	-13.414	60.117	1.00	18.71
ATOM	9541	NE2	GLN	1411	-18.378	-11.819	60.133	1.00	18.44
ATOM	9542	C	GLN	1411	-14.676	-15.014	59.133	1.00	20.57
ATOM	9543	O	GLN	1411	-14.401	-15.889	59.159	1.00	19.66
ATOM	9544	N	LEU	1412	-13.824	-14.041	59.167	1.00	22.26
ATOM	9545	CA	LEU	1412	-12.501	-12.951	59.133	1.00	23.57
ATOM	9546	CB	LEU	1412	-12.570	-12.214	59.159	1.00	23.39
ATOM	9547	CG2	LEU	1412	-12.757	-11.673	59.133	1.00	24.56
ATOM	9548	CG1	LEU	1412	-11.227	-12.310	59.133	1.00	25.80
ATOM	9549	CD1	LEU	1412	-11.316	-12.973	59.133	1.00	25.23
ATOM	9550	C	LEU	1412	-11.536	-13.309	59.133	1.00	25.52
ATOM	9551	O	LEU	1412	-11.952	-12.817	60.114	1.00	24.69
ATOM	9552	N	LEU	1413	-10.248	-13.637	59.133	1.00	27.48
ATOM	9553	CA	LEU	1413	-9.243	-13.001	59.133	1.00	28.81
ATOM	9554	CB	LEU	1413	-9.311	-13.601	60.116	1.00	24.01
ATOM	9555	CG	LEU	1413	-9.299	-12.369	60.116	1.00	27.41
ATOM	9556	CD1	LEU	1413	-9.200	-13.412	60.116	1.00	29.43
ATOM	9557	CD2	LEU	1413	-8.100	-11.517	60.116	1.00	29.60
ATOM	9558	C	LEU	1413	-9.863	-13.111	59.143	1.00	28.53
ATOM	9559	O	LEU	1413	-10.692	-14.259	59.143	1.00	25.03
ATOM	9560	N	VAL	1414	-6.890	-12.481	59.133	1.00	29.11
ATOM	9561	CA	VAL	1414	-5.520	-12.801	59.147	1.00	29.08
ATOM	9562	CB	VAL	1414	-4.638	-11.431	59.147	1.00	30.55
ATOM	9563	CG1	VAL	1414	-3.238	-11.623	59.000	1.00	31.68
ATOM	9564	CG2	VAL	1414	-5.277	-10.163	59.000	1.00	31.09
ATOM	9565	C	VAL	1414	-4.961	-13.880	59.863	1.00	28.58
ATOM	9566	O	VAL	1414	-4.936	-13.923	61.092	1.00	28.63
ATOM	9567	N	MET	1415	-4.525	-14.863	59.087	1.00	26.58
ATOM	9568	CA	MET	1415	-3.976	-16.098	59.044	1.00	25.18
ATOM	9569	CB	MET	1415	-3.386	-16.959	59.127	1.00	21.68
ATOM	9570	CG	MET	1415	-2.253	-16.303	59.077	1.00	20.94
ATOM	9571	SD	MET	1415	-1.043	-17.545	59.100	1.00	21.74
ATOM	9572	CE	MET	1415	-0.091	-17.627	59.832	1.00	21.73
ATOM	9573	C	MET	1415	-2.912	-15.850	60.713	1.00	25.50
ATOM	9574	O	MET	1415	-2.793	-16.614	61.671	1.00	25.46
ATOM	9575	N	HIS	1416	-2.144	-14.778	60.548	1.00	25.98
ATOM	9576	CA	HIS	1416	-1.089	-14.440	61.496	1.00	27.03
ATOM	9577	CB	HIS	1416	-0.294	-13.242	60.974	1.00	26.14

ATOM	9537	CE1	HIS	1416	-1.471	-11.541	58.776	1.00	18.59
ATOM	9538	CE2	HIS	1416	-0.121	-12.513	58.421	1.00	15.19
ATOM	9539	NE1	HIS	1416	-1.778	-11.001	59.750	1.00	25.73
ATOM	9540	CE1	HIS	1416	-2.189	-11.243	58.517	1.00	23.75
ATOM	9541	NE2	HIS	1416	-1.133	-13.664	57.690	1.00	27.44
ATOM	9542	C	HIS	1416	-1.831	-11.133	57.889	1.00	28.73
ATOM	9543	O	HIS	1416	-1.076	-13.593	63.887	1.00	27.94
ATOM	9544	N	ASP	1417	-0.773	-13.444	62.968	1.00	29.75
ATOM	9545	CA	ASP	1417	-3.336	-13.156	64.262	1.00	33.32
ATOM	9546	CB	ASP	1417	-4.438	-13.063	64.134	1.00	31.18
ATOM	9547	CG	ASP	1417	-3.836	-13.733	63.731	1.00	31.67
ATOM	9548	CD1	ASP	1417	-0.930	-13.232	63.861	1.00	33.25
ATOM	9549	OD2	ASP	1417	-1.429	-13.111	62.783	1.00	33.11
ATOM	9550	C	ASP	1417	-4.035	-13.403	63.139	1.00	33.99
ATOM	9551	O	ASP	1417	-4.130	-13.543	66.967	1.00	33.61
ATOM	9552	N	ALA	1418	-1.135	-11.311	63.767	1.00	33.01
ATOM	9553	CA	ALA	1418	-5.034	-13.552	64.769	1.00	39.04
ATOM	9554	CB	ALA	1418	-5.330	-11.297	63.761	1.00	31.52
ATOM	9555	C	ALA	1418	-4.130	-11.533	65.763	1.00	36.11
ATOM	9556	O	ALA	1418	-4.524	-11.505	65.671	1.00	36.84
ATOM	9557	N	PHE	1419	-2.613	-11.287	64.763	1.00	31.13
ATOM	9558	CA	PHE	1419	-1.741	-11.161	65.436	1.00	36.23
ATOM	9559	CB	PHE	1419	-0.939	-13.843	64.323	1.00	33.87
ATOM	9560	CG	PHE	1419	-1.831	-13.607	63.349	1.00	33.07
ATOM	9561	CD1	PHE	1419	-2.859	-20.465	63.806	1.00	33.80
ATOM	9562	CD2	PHE	1419	-1.671	-13.472	61.575	1.00	33.70
ATOM	9563	CE1	PHE	1419	-3.654	-21.176	62.314	1.00	33.60
ATOM	9564	CE2	PHE	1419	-2.461	-20.180	61.677	1.00	33.92
ATOM	9565	CZ	PHE	1419	-3.466	-23.735	61.544	1.00	39.35
ATOM	9566	C	PHE	1419	-0.838	-17.112	66.563	1.00	36.97
ATOM	9567	O	PHE	1419	0.267	-13.389	66.563	1.00	37.74
ATOM	9568	N	GLY	1420	-1.778	-13.245	66.831	1.00	33.58
ATOM	9569	CA	GLY	1420	-0.472	-13.144	67.733	1.00	34.95
ATOM	9570	C	GLY	1420	0.900	-15.073	67.205	1.00	33.91
ATOM	9571	O	GLY	1420	1.762	-14.622	67.967	1.00	33.99
ATOM	9572	N	ILE	1421	1.112	-13.373	65.903	1.00	33.41
ATOM	9573	CA	ILE	1421	2.394	-13.350	65.229	1.00	28.93
ATOM	9574	CB	ILE	1421	2.413	-13.367	63.804	1.00	28.13
ATOM	9575	CD2	ILE	1421	3.522	-13.325	63.158	1.00	24.57
ATOM	9576	CD1	ILE	1421	2.164	-13.383	63.683	1.00	26.51
ATOM	9577	CE1	ILE	1421	2.034	-15.337	62.327	1.00	16.33
ATOM	9578	C	ILE	1421	2.626	-11.147	65.411	1.00	29.11
ATOM	9579	O	ILE	1421	3.516	-11.399	65.761	1.00	27.53
ATOM	9580	N	THR	1422	1.577	-13.676	65.147	1.00	30.59
ATOM	9581	CA	THR	1422	1.654	-13.323	65.195	1.00	33.03
ATOM	9582	CB	THR	1422	0.315	-16.585	64.799	1.00	34.07
ATOM	9583	CD1	THR	1422	-0.731	-13.331	65.685	1.00	33.17
ATOM	9584	CD2	THR	1422	-0.345	-16.361	63.371	1.00	11.21
ATOM	9585	C	THR	1422	2.055	-16.353	65.551	1.00	33.46
ATOM	9586	O	THR	1422	1.761	-15.313	67.594	1.00	33.13
ATOM	9587	N	GLY	1423	2.516	-9.503	66.501	1.00	38.11
ATOM	9588	CA	GLY	1423	3.187	-8.983	67.681	1.00	42.33
ATOM	9589	C	GLY	1423	3.953	-9.133	69.009	1.00	33.36
ATOM	9590	O	GLY	1423	3.343	-10.331	68.277	1.00	40.32
ATOM	9591	N	GLY	1424	1.113	-8.393	69.893	1.00	45.54
ATOM	9592	CA	GLY	1424	1.826	-9.473	71.133	1.00	46.17
ATOM	9593	C	GLY	1424	0.367	-9.333	71.521	1.00	47.44
ATOM	9594	O	GLY	1424	-1.143	-10.347	71.995	1.00	48.07
ATOM	9595	N	HIS	1425	-0.202	-8.173	71.333	1.00	47.09
ATOM	9596	CA	HIS	1425	-1.587	-7.968	71.747	1.00	48.69
ATOM	9597	CB	HIS	1425	-1.712	-6.705	72.599	1.00	50.45
ATOM	9598	CG	HIS	1425	-2.977	-6.666	73.423	1.00	52.29
ATOM	9599	CD2	HIS	1425	-3.834	-5.654	73.701	1.00	55.70
ATOM	9600	CD1	HIS	1425	-3.434	-7.755	74.133	1.00	55.03
ATOM	9601	CE1	HIS	1425	-4.518	-7.318	74.811	1.00	52.99
ATOM	9602	NE2	HIS	1425	-4.781	-6.148	74.563	1.00	54.24
ATOM	9603	C	HIS	1425	-2.485	-7.968	70.512	1.00	47.46
ATOM	9604	O	HIS	1425	-2.627	-6.802	69.917	1.00	46.90
ATOM	9605	N	ILE	1426	-3.078	-8.593	70.129	1.00	43.14
ATOM	9606	CA	ILE	1426	-3.941	-9.639	68.960	1.00	46.99
ATOM	9607	CB	ILE	1426	-4.554	-10.485	68.648	1.00	41.44
ATOM	9608	CG2	ILE	1426	-3.160	-11.313	68.259	1.00	45.26
ATOM	9609	CG1	ILE	1426	-5.065	-11.098	69.860	1.00	47.01
ATOM	9610	CD1	ILE	1426	-5.604	-12.486	69.603	1.00	47.10
ATOM	9611	C	ILE	1426	-5.184	-8.177	69.148	1.00	45.31
ATOM	9612	O	ILE	1426	-5.532	-7.801	70.271	1.00	45.25
ATOM	9613	N	PRO	1427	-5.868	-7.844	68.043	1.00	44.13

ATOM	9654	CD	PHE	1427	-8.381	-8.127	68.931	1.00	43.74
ATOM	9655	CA	PHE	1427	-7.774	-8.753	68.411	1.00	42.56
ATOM	9656	CB	PHE	1427	-8.414	-8.184	68.643	1.00	42.85
ATOM	9657	CG	PHE	1427	-8.561	-8.038	68.959	1.00	44.37
ATOM	9658	C	LEU	1428	-8.211	-7.763	68.970	1.00	40.69
ATOM	9659	CD	LEU	1428	-8.234	-8.128	68.941	1.00	39.71
ATOM	9660	N	LYS	1428	-8.165	-8.864	69.446	1.00	39.55
ATOM	9661	CA	LYS	1428	-10.278	-7.402	70.188	1.00	39.01
ATOM	9662	CB	LYS	1428	-11.115	-8.271	70.631	1.00	38.74
ATOM	9663	CG	LYS	1428	-10.693	-9.483	71.860	1.00	44.41
ATOM	9664	CD	LYS	1428	-9.471	-8.693	71.629	1.00	46.69
ATOM	9665	CE	LYS	1428	-8.148	-8.441	72.946	1.00	47.27
ATOM	9666	NH	LYS	1428	-8.917	-8.713	71.829	1.00	43.13
ATOM	9667	C	LYS	1428	-11.065	-8.431	69.413	1.00	35.07
ATOM	9668	O	LYS	1428	-11.597	-8.417	69.994	1.00	33.86
ATOM	9669	N	LEU	1429	-11.213	-8.050	68.112	1.00	37.23
ATOM	9670	CA	PHE	1429	-12.014	-9.159	67.393	1.00	33.78
ATOM	9671	CB	PHE	1429	-12.484	-8.430	66.927	1.00	37.62
ATOM	9672	CG	PHE	1429	-11.386	-7.934	65.131	1.00	34.25
ATOM	9673	CD	PHE	1429	-10.713	-8.843	64.401	1.00	33.47
ATOM	9674	CE	PHE	1429	-10.262	-8.654	65.116	1.00	32.84
ATOM	9675	CH	PHE	1429	-9.873	-8.489	63.476	1.00	31.56
ATOM	9676	CH2	PHE	1429	-9.972	-8.237	64.293	1.00	33.95
ATOM	9677	CH	PHE	1429	-9.276	-7.156	63.469	1.00	34.89
ATOM	9678	C	PHE	1429	-11.314	-10.463	68.914	1.00	29.44
ATOM	9679	O	PHE	1429	-11.952	-11.338	66.424	1.00	16.30
ATOM	9680	N	ALA	1430	-10.008	-10.534	67.149	1.00	23.50
ATOM	9681	CA	ALA	1430	-9.236	-11.726	66.816	1.00	19.62
ATOM	9682	CB	ALA	1430	-7.854	-11.325	66.325	1.00	19.04
ATOM	9683	C	ALA	1430	-9.106	-12.645	67.998	1.00	21.64
ATOM	9684	O	ALA	1430	-9.352	-12.311	69.150	1.00	11.63
ATOM	9685	N	LYS	1431	-8.741	-13.907	67.685	1.00	31.01
ATOM	9686	CA	LYS	1431	-8.561	-14.949	68.712	1.00	32.80
ATOM	9687	CB	LYS	1431	-9.847	-15.759	68.891	1.00	33.38
ATOM	9688	CG	LYS	1431	-8.731	-16.878	69.926	1.00	34.77
ATOM	9689	CD	LYS	1431	-11.943	-17.635	70.055	1.00	34.17
ATOM	9690	CE	LYS	1431	-10.902	-18.801	70.298	1.00	37.42
ATOM	9691	NH	LYS	1431	-10.189	-19.541	71.174	1.00	39.01
ATOM	9692	C	LYS	1431	-7.420	-19.843	69.101	1.00	33.12
ATOM	9693	O	LYS	1431	-7.379	-18.414	67.113	1.00	32.57
ATOM	9694	N	ASN	1432	-8.496	-16.043	69.166	1.00	31.52
ATOM	9695	CA	ASN	1432	-5.355	-16.942	69.054	1.00	30.83
ATOM	9696	CB	ASN	1432	-4.260	-16.695	70.087	1.00	34.68
ATOM	9697	CG	ASN	1432	-2.995	-17.445	69.860	1.00	23.49
ATOM	9698	CD	ASN	1432	-3.946	-18.600	69.178	1.00	22.37
ATOM	9699	CE	ASN	1432	-1.856	-16.849	70.120	1.00	16.41
ATOM	9700	C	ASN	1432	-5.814	-19.441	69.223	1.00	29.31
ATOM	9701	O	ASN	1432	-5.417	-19.843	70.147	1.00	31.09
ATOM	9702	N	PHE	1433	-6.055	-19.043	68.113	1.00	23.51
ATOM	9703	CA	PHE	1433	-6.553	-20.443	68.164	1.00	30.75
ATOM	9704	CB	PHE	1433	-7.283	-20.843	66.873	1.00	31.29
ATOM	9705	CG	PHE	1433	-8.609	-20.114	65.706	1.00	21.82
ATOM	9706	CH	PHE	1433	-8.620	-18.849	66.095	1.00	21.79
ATOM	9707	CH2	PHE	1433	-9.781	-20.747	67.160	1.00	14.56
ATOM	9708	CH	PHE	1433	-9.907	-19.244	65.916	1.00	14.13
ATOM	9709	CH2	PHE	1433	-11.077	-20.111	67.667	1.00	14.17
ATOM	9710	CH	PHE	1433	-11.977	-18.848	67.084	1.00	14.14
ATOM	9711	C	PHE	1433	-5.415	-21.445	68.118	1.00	19.93
ATOM	9712	O	PHE	1433	-5.652	-22.644	66.616	1.00	30.60
ATOM	9713	N	LEU	1434	-4.179	-20.949	68.197	1.00	31.92
ATOM	9714	CA	LEU	1434	-3.934	-21.847	68.501	1.00	34.45
ATOM	9715	CB	LEU	1434	-1.783	-21.256	67.834	1.00	30.12
ATOM	9716	CG	LEU	1434	-0.507	-22.134	67.974	1.00	28.43
ATOM	9717	CD	LEU	1434	-0.732	-23.515	67.385	1.00	24.64
ATOM	9718	CE	LEU	1434	0.546	-21.432	67.267	1.00	29.29
ATOM	9719	C	LEU	1434	-2.792	-22.008	69.997	1.00	35.53
ATOM	9720	O	LEU	1434	-2.528	-23.109	70.472	1.00	35.29
ATOM	9721	N	ALA	1435	-2.896	-20.903	70.731	1.00	30.10
ATOM	9722	CA	ALA	1435	-2.685	-20.916	72.173	1.00	43.53
ATOM	9723	CB	ALA	1435	-2.849	-19.512	72.741	1.00	44.69
ATOM	9724	C	ALA	1435	-3.675	-21.844	72.842	1.00	46.59
ATOM	9725	O	ALA	1435	-3.376	-22.480	73.857	1.00	48.64
ATOM	9726	N	GLU	1436	-4.857	-21.974	72.235	1.00	49.35
ATOM	9727	CA	GLU	1436	-5.908	-22.852	72.742	1.00	52.23
ATOM	9728	CB	GLU	1436	-7.250	-22.507	72.685	1.00	54.27
ATOM	9729	CG	GLU	1436	-7.670	-21.046	72.215	1.00	57.48
ATOM	9730	CD	GLU	1436	-8.111	-20.674	73.617	1.00	59.19

ATOM	9741	BI	GLN	1436	-4.1294	-25.1875	68.5847	1.00	52.48
ATOM	9742	OR	GLN	1436	-4.1278	-25.1831	68.5775	1.00	52.48
ATOM	9743	NI	GLN	1436	-4.1319	-25.1865	68.5437	1.00	52.48
ATOM	9744	CI	GLN	1436	-4.1319	-25.1865	68.5437	1.00	52.48
ATOM	9745	N	THR	1437	-4.1334	-25.1904	68.5926	1.00	52.48
ATOM	9746	CA	THR	1437	-4.1309	-25.1849	68.5882	1.00	52.48
ATOM	9747	CB	THR	1437	-4.1307	-25.1847	68.5868	1.00	52.48
ATOM	9748	CG1	THR	1437	-4.1314	-25.1854	68.5868	1.00	52.48
ATOM	9749	CG2	THR	1437	-4.1307	-25.1845	68.5813	1.00	52.48
ATOM	9749	CI	THR	1437	-4.1332	-25.1919	68.5443	1.00	52.48
ATOM	9749	O	THR	1437	-4.1302	-25.1848	68.5813	1.00	52.48
ATOM	9750	N	GLY	1438	-1.1922	-25.1712	68.5571	1.00	52.48
ATOM	9750	CA	GLY	1438	-1.1887	-25.1668	68.5367	1.00	48.89
ATOM	9750	CI	GLY	1438	-1.1931	-25.1762	68.4977	1.00	48.89
ATOM	9750	O	GLY	1438	-1.1917	-25.1703	68.4990	1.00	48.89
ATOM	9750	N	ASP	1439	-1.0033	-25.1045	68.6088	1.00	48.89
ATOM	9750	CA	ASP	1439	-1.0026	-25.1039	68.6711	1.00	42.62
ATOM	9750	CB	ASP	1439	-1.0059	-25.1138	68.5583	1.00	44.51
ATOM	9750	CG	ASP	1439	-1.0061	-25.1133	68.5133	1.00	46.55
ATOM	9750	CD	ASP	1439	-2.0319	-25.1368	68.4309	1.00	47.77
ATOM	9751	CE	ASP	1439	-0.1319	-25.1302	68.4808	1.00	48.59
ATOM	9751	O	ASP	1439	-1.0040	-25.1147	68.5783	1.00	39.71
ATOM	9753	O	ASP	1439	-2.0310	-25.1302	68.4808	1.00	38.19
ATOM	9754	N	ILE	1440	-0.7719	-25.1150	68.4843	1.00	37.29
ATOM	9755	CA	ILE	1440	-1.1337	-25.1206	68.3883	1.00	34.51
ATOM	9756	CB	ILE	1440	-0.2668	-25.1051	68.3801	1.00	33.52
ATOM	9757	CG2	ILE	1440	-0.9120	-25.1300	68.1748	1.00	33.39
ATOM	9758	CG1	ILE	1440	0.8109	-25.1300	68.5513	1.00	32.81
ATOM	9759	CD1	ILE	1440	1.1950	-25.1460	68.6374	1.00	31.48
ATOM	9760	O	ILE	1440	-2.5400	-25.1704	68.3114	1.00	32.97
ATOM	9761	O	ILE	1440	-3.5319	-25.0997	68.3994	1.00	32.77
ATOM	9762	N	ARG	1441	-2.4319	-27.0012	62.6004	1.00	31.92
ATOM	9763	CA	ARG	1441	-3.5332	-27.0031	61.9437	1.00	30.40
ATOM	9764	CB	ARG	1441	-3.1144	-28.9903	61.3884	1.00	30.10
ATOM	9765	CG	ARG	1441	-2.1334	-28.8807	60.2001	1.00	31.94
ATOM	9766	CH	ARG	1441	-1.6822	-30.2006	59.7881	1.00	31.51
ATOM	9767	NE	ARG	1441	-0.6001	-30.1102	58.5380	1.00	31.83
ATOM	9768	CI	ARG	1441	0.1331	-29.3005	58.3881	1.00	31.71
ATOM	9769	CD1	ARG	1441	0.8883	-28.9006	59.6711	1.00	31.47
ATOM	9770	CD2	ARG	1441	1.1336	-29.5001	57.5408	1.00	31.51
ATOM	9771	O	ARG	1441	-4.1330	-27.0006	62.8808	1.00	30.10
ATOM	9772	O	ARG	1441	-5.1331	-27.0002	62.4808	1.00	30.10
ATOM	9773	N	ALA	1442	-4.1333	-25.1809	68.4111	1.00	19.41
ATOM	9774	CA	ALA	1442	-4.1333	-25.1811	68.4111	1.00	18.31
ATOM	9775	CB	ALA	1442	-4.1333	-25.1810	68.4108	1.00	17.62
ATOM	9776	O	ALA	1442	-6.1333	-26.1811	65.3801	1.00	16.62
ATOM	9777	O	ALA	1442	-4.1333	-26.1810	65.3801	1.00	18.20
ATOM	9778	N	ALA	1442	-4.1333	-25.1804	65.3801	1.00	14.91
ATOM	9779	CA	ALA	1442	-4.1333	-25.1803	65.3801	1.00	14.91
ATOM	9780	CB	ALA	1442	-4.1333	-25.1800	65.3801	1.00	14.61
ATOM	9781	O	ALA	1442	-6.1331	-26.1803	64.2603	1.00	14.50
ATOM	9782	O	ALA	1442	-7.1333	-26.1803	64.2603	1.00	14.61
ATOM	9783	N	VAL	1443	-6.1333	-24.1807	68.0001	1.00	14.00
ATOM	9784	CA	VAL	1443	-6.1333	-24.1804	68.0001	1.00	15.39
ATOM	9785	CB	VAL	1443	-6.1333	-24.1803	68.0001	1.00	15.10
ATOM	9786	CD	VAL	1443	-7.1333	-24.1802	67.0001	1.00	16.00
ATOM	9787	CE	VAL	1443	-8.1333	-24.1807	66.0001	1.00	14.41
ATOM	9788	O	VAL	1443	-9.1333	-24.1802	65.0001	1.00	16.01
ATOM	9789	O	VAL	1443	-9.1333	-24.1808	61.6803	1.00	15.30
ATOM	9790	N	ARG	1445	-8.7133	-26.1802	62.8801	1.00	27.77
ATOM	9791	CA	ARG	1445	-8.6888	-27.0001	62.7701	1.00	19.77
ATOM	9792	CB	ARG	1445	-8.6888	-28.4109	61.0801	1.00	10.48
ATOM	9793	CG	ARG	1445	-8.0855	-29.1702	61.9501	1.00	11.74
ATOM	9794	CD	ARG	1445	-8.0888	-30.1006	62.2503	1.00	13.04
ATOM	9795	NE	ARG	1445	-8.0845	-31.1006	63.4104	1.00	14.02
ATOM	9796	CG2	ARG	1445	-6.1111	-31.1001	63.3801	1.00	23.14
ATOM	9797	NE1	ARG	1445	-6.2886	-31.1008	62.1101	1.00	21.44
ATOM	9798	NE2	ARG	1445	-6.2888	-31.1000	64.4901	1.00	13.53
ATOM	9799	O	ARG	1445	-10.8106	-26.1001	63.8801	1.00	10.41
ATOM	9800	O	ARG	1445	-12.0700	-26.1008	63.6801	1.00	29.87
ATOM	9801	N	GLN	1446	-10.2001	-25.1807	64.8801	1.00	11.30
ATOM	9802	CA	GLN	1446	-10.9377	-25.1806	65.9501	1.00	12.71
ATOM	9803	CB	GLN	1446	-8.9887	-24.8807	67.0901	1.00	15.17
ATOM	9804	CG	GLN	1446	-10.6399	-24.6209	68.4201	1.00	15.56
ATOM	9805	CD	GLN	1446	-8.7529	-24.1600	69.5101	1.00	41.33
ATOM	9806	CE	GLN	1446	-8.6099	-24.6008	69.5999	1.00	42.46
ATOM	9807	NE	GLN	1446	-10.2477	-23.2801	70.3701	1.00	40.91

ATOM	9-10	C	GLN	1447	-11.662	-23.777	65.443	1.00	31.71
ATOM	9-11	O	GLN	1447	-11.173	-23.717	65.155	1.00	30.44
ATOM	9-12	N	TYR	1447	-10.967	-23.711	64.843	1.00	31.24
ATOM	9-13	CA	TYR	1447	-11.444	-23.771	64.557	1.00	30.17
ATOM	9-14	CB	TYR	1447	-10.861	-23.787	63.847	1.00	29.43
ATOM	9-15	CG	TYR	1447	-10.875	-23.153	63.574	1.00	28.31
ATOM	9-16	CH1	TYR	1447	-11.515	-23.659	62.817	1.00	27.71
ATOM	9-17	CH2	TYR	1447	-11.099	-23.627	62.121	1.00	25.98
ATOM	9-18	CH3	TYR	1447	-10.083	-23.150	60.896	1.00	24.41
ATOM	9-19	CH4	TYR	1447	-11.158	-23.164	60.179	1.00	23.23
ATOM	9-20	CH5	TYR	1447	-11.816	-23.087	60.748	1.00	22.37
ATOM	9-21	H	TYR	1447	-12.179	-23.093	59.939	1.00	21.55
ATOM	9-22	C	TYR	1447	-12.679	-23.157	63.213	1.00	19.65
ATOM	9-23	O	TYR	1447	-13.685	-23.559	63.301	1.00	20.55
ATOM	9-24	N	MET	1448	-12.598	-23.379	62.390	1.00	19.56
ATOM	9-25	CA	MET	1448	-13.000	-23.700	61.531	1.00	20.33
ATOM	9-26	CB	MET	1448	-13.781	-24.378	60.631	1.00	20.01
ATOM	9-27	CG	MET	1448	-12.004	-24.349	59.580	1.00	21.10
ATOM	9-28	CD	MET	1448	-11.474	-25.091	58.878	1.00	21.68
ATOM	9-29	CE	MET	1448	-12.791	-25.287	57.742	1.00	19.90
ATOM	9-30	C	MET	1448	-14.795	-24.103	62.327	1.00	20.96
ATOM	9-31	O	MET	1448	-16.045	-23.736	62.061	1.00	19.66
ATOM	9-32	N	ALA	1449	-14.779	-24.936	63.303	1.00	21.49
ATOM	9-33	CA	ALA	1449	-15.863	-25.167	64.152	1.00	22.05
ATOM	9-34	CB	ALA	1449	-15.203	-26.567	65.076	1.00	22.34
ATOM	9-35	C	ALA	1449	-16.488	-24.369	64.974	1.00	23.12
ATOM	9-36	O	ALA	1449	-17.708	-24.350	65.108	1.00	23.68
ATOM	9-37	N	GLU	1450	-15.693	-23.460	65.523	1.00	22.10
ATOM	9-38	CA	GLU	1450	-16.257	-22.382	66.333	1.00	23.21
ATOM	9-39	CB	GLU	1450	-15.154	-21.585	67.141	1.00	24.06
ATOM	9-40	CG	GLU	1450	-14.693	-22.482	68.353	1.00	26.21
ATOM	9-41	CD	GLU	1450	-15.737	-21.708	69.231	1.00	28.09
ATOM	9-42	CE1	GLU	1450	-14.030	-20.339	69.543	1.00	40.42
ATOM	9-43	CE2	GLU	1450	-12.681	-22.269	69.615	1.00	41.18
ATOM	9-44	C	GLU	1450	-17.033	-21.339	65.504	1.00	32.93
ATOM	9-45	O	GLU	1450	-17.556	-20.731	66.316	1.00	31.73
ATOM	9-46	N	VAL	1451	-16.866	-21.177	64.247	1.00	31.86
ATOM	9-47	CA	VAL	1451	-17.330	-20.331	63.373	1.00	31.03
ATOM	9-48	CB	VAL	1451	-16.534	-19.383	62.064	1.00	30.01
ATOM	9-49	CG1	VAL	1451	-17.439	-19.775	61.041	1.00	29.73
ATOM	9-50	CG2	VAL	1451	-15.312	-19.173	62.367	1.00	28.24
ATOM	9-51	C	VAL	1451	-16.713	-20.783	63.017	1.00	31.23
ATOM	9-52	O	VAL	1451	-19.705	-20.135	63.094	1.00	32.23
ATOM	9-53	N	GLU	1452	-16.766	-22.035	62.639	1.00	31.87
ATOM	9-54	CA	GLU	1452	-20.019	-22.774	62.267	1.00	33.73
ATOM	9-55	CB	GLU	1452	-19.331	-24.063	61.660	1.00	34.97
ATOM	9-56	CG	GLU	1452	-20.993	-24.303	61.243	1.00	36.83
ATOM	9-57	CH1	GLU	1452	-20.651	-26.115	60.436	1.00	41.03
ATOM	9-58	CH2	GLU	1452	-21.602	-26.703	60.089	1.00	42.11
ATOM	9-59	CH3	GLU	1452	-19.483	-26.111	60.290	1.00	43.67
ATOM	9-60	C	GLU	1452	-20.965	-22.936	63.444	1.00	34.37
ATOM	9-61	N	GLU	1452	-22.194	-22.331	63.304	1.00	33.57
ATOM	9-62	N	HEP	1453	-20.310	-22.096	64.673	1.00	34.47
ATOM	9-63	CA	HEP	1453	-21.297	-23.335	65.851	1.00	35.81
ATOM	9-64	CB	HEP	1453	-20.414	-23.313	66.860	1.00	36.43
ATOM	9-65	CG	HEP	1453	-20.068	-25.201	66.313	1.00	37.51
ATOM	9-66	C	HEP	1453	-21.878	-21.733	66.313	1.00	35.00
ATOM	9-67	CH1	HEP	1453	-23.490	-21.693	67.769	1.00	35.49
ATOM	9-68	N	GLA	1454	-23.959	-20.777	65.923	1.00	37.14
ATOM	9-69	CA	GLA	1454	-21.367	-19.303	66.407	1.00	31.40
ATOM	9-70	C	GLA	1454	-20.441	-19.043	67.624	1.00	31.93
ATOM	9-71	O	GLY	1454	-20.491	-17.906	68.106	1.00	31.65
ATOM	9-72	N	VAL	1455	-19.680	-20.003	68.131	1.00	32.10
ATOM	9-73	CA	VAL	1455	-18.828	-19.781	69.298	1.00	31.24
ATOM	9-74	CB	VAL	1455	-17.950	-21.009	69.580	1.00	31.35
ATOM	9-75	CG1	VAL	1455	-17.034	-20.775	70.777	1.00	32.27
ATOM	9-76	CG2	VAL	1455	-18.787	-22.241	69.620	1.00	33.67
ATOM	9-77	C	VAL	1455	-17.979	-18.573	69.031	1.00	30.78
ATOM	9-78	O	VAL	1455	-17.779	-17.772	69.901	1.00	30.55
ATOM	9-79	N	TYR	1456	-17.410	-18.560	67.815	1.00	28.80
ATOM	9-80	CA	TYR	1456	-16.545	-17.461	67.405	1.00	27.94
ATOM	9-81	CB	TYR	1456	-15.157	-17.935	67.011	1.00	26.17
ATOM	9-82	CG	TYR	1456	-14.226	-16.846	66.531	1.00	23.34
ATOM	9-83	CH1	TYR	1456	-13.651	-15.950	67.455	1.00	22.92
ATOM	9-84	CH2	TYR	1456	-12.873	-14.883	66.995	1.00	22.74
ATOM	9-85	CH3	TYR	1456	-13.989	-16.652	65.169	1.00	24.91
ATOM	9-86	CH4	TYR	1456	-13.212	-15.585	64.718	1.00	22.93

ATOM	9385	CH	TYR	1457	-12.663	-14.114	65.064	1.00	14.90
ATOM	9386	CH	TYR	1457	-11.946	-13.612	65.064	1.00	14.81
ATOM	9387	C	TYR	1457	-17.155	-14.167	65.064	1.00	17.24
ATOM	9388	N	TYR	1457	-17.616	-13.363	65.064	1.00	17.23
ATOM	9389	N	PRO	1457	-17.178	-13.138	65.064	1.00	16.34
ATOM	9390	CO	PRO	1457	-17.476	-11.508	65.063	1.00	16.55
ATOM	9391	OE	PRO	1457	-16.660	-14.494	65.061	1.00	16.57
ATOM	9392	OE	PRO	1457	-16.370	-13.167	65.063	1.00	16.55
ATOM	9393	OE	PRO	1457	-17.442	-13.165	65.067	1.00	16.60
ATOM	9394	N	PRO	1457	-17.634	-14.328	64.459	1.00	16.24
ATOM	9395	O	PRO	1457	-18.850	-14.454	65.833	1.00	16.51
ATOM	9396	N	GLY	1458	-17.085	-14.081	70.687	1.00	16.20
ATOM	9397	CA	GLY	1458	-17.911	-13.393	70.684	1.00	16.07
ATOM	9398	C	GLY	1458	-18.126	-13.429	71.128	1.00	16.59
ATOM	9399	O	GLY	1458	-17.564	-11.583	70.431	1.00	16.41
ATOM	9400	N	GLU	1459	-18.931	-12.108	70.111	1.00	17.02
ATOM	9401	CA	GLU	1459	-18.191	-10.711	70.443	1.00	16.57
ATOM	9402	CB	GLU	1459	-20.174	-10.591	70.616	1.00	16.14
ATOM	9403	CO	GLU	1459	-21.039	-9.556	70.594	1.00	16.27
ATOM	9404	CD	GLU	1459	-21.226	-8.976	70.366	1.00	16.55
ATOM	9405	OE1	GLU	1459	-21.961	-8.346	71.815	1.00	16.59
ATOM	9406	OE2	GLU	1459	-21.070	-11.113	71.594	1.00	16.59
ATOM	9407	C	GLU	1459	-17.887	-10.064	70.795	1.00	16.39
ATOM	9408	O	GLU	1459	-17.563	-8.786	70.633	1.00	16.39
ATOM	9409	N	GLU	1460	-16.910	-10.775	73.281	1.00	16.94
ATOM	9410	CA	GLU	1460	-15.697	-10.212	73.641	1.00	16.54
ATOM	9411	CB	GLU	1460	-14.784	-11.217	74.404	1.00	17.12
ATOM	9412	CD	GLU	1460	-15.592	-13.160	71.331	1.00	16.64
ATOM	9413	CE	GLU	1460	-16.373	-13.215	74.553	1.00	16.05
ATOM	9414	OE1	GLU	1460	-15.745	-11.100	73.961	1.00	16.71
ATOM	9415	OE2	GLU	1460	-17.628	-13.148	74.601	1.00	16.97
ATOM	9416	O	GLU	1460	-14.628	-9.816	70.403	1.00	16.32
ATOM	9417	O	GLU	1460	-13.883	-8.031	72.483	1.00	16.42
ATOM	9418	N	HIS	1461	-15.227	-10.358	71.355	1.00	16.67
ATOM	9419	CA	HIS	1461	-14.571	-10.067	69.966	1.00	16.54
ATOM	9420	CB	HIS	1461	-14.364	-11.166	69.314	1.00	16.83
ATOM	9421	CG	HIS	1461	-15.527	-12.182	70.901	1.00	16.96
ATOM	9422	CD2	HIS	1461	-15.852	-13.619	70.411	1.00	16.87
ATOM	9423	ND1	HIS	1461	-15.334	-11.186	70.433	1.00	16.51
ATOM	9424	OE1	HIS	1461	-15.600	-13.228	71.077	1.00	16.78
ATOM	9425	NE2	HIS	1461	-15.781	-11.134	71.081	1.00	16.95
ATOM	9426	C	HIS	1461	-15.443	-9.163	69.121	1.00	16.10
ATOM	9427	O	HIS	1461	-15.096	-8.851	69.973	1.00	16.36
ATOM	9428	N	SER	1462	-16.573	-8.742	69.677	1.00	16.68
ATOM	9429	CA	SER	1462	-17.426	-7.901	69.962	1.00	16.52
ATOM	9430	CB	SER	1462	-18.930	-8.484	69.111	1.00	16.18
ATOM	9431	CG	SER	1462	-18.956	-9.846	68.726	1.00	16.95
ATOM	9432	C	SER	1462	-17.938	-8.457	69.447	1.00	16.15
ATOM	9433	O	SER	1462	-17.141	-6.161	70.074	1.00	16.68
ATOM	9434	N	PHE	1463	-17.981	-9.150	69.467	1.00	16.31
ATOM	9435	CA	PHE	1463	-18.957	-8.230	69.901	1.00	16.66
ATOM	9436	CB	PHE	1463	-17.864	-9.254	69.534	1.00	16.13
ATOM	9437	CG	PHE	1463	-15.693	-8.155	69.884	1.00	16.15
ATOM	9438	CD	PHE	1463	-25.454	-4.755	69.951	1.00	16.56
ATOM	9439	CE	PHE	1463	-14.951	-8.121	69.356	1.00	16.01
ATOM	9440	OE1	PHE	1463	-14.992	-4.910	69.384	1.00	16.14
ATOM	9441	OE2	PHE	1463	-15.520	-8.251	69.141	1.00	16.48
ATOM	9442	CE	PHE	1463	-15.157	-4.666	69.403	1.00	16.69
ATOM	9443	O	PHE	1463	-19.513	-9.485	69.207	1.00	16.85
ATOM	9444	O	PHE	1463	-20.426	-4.119	69.486	1.00	16.90
ATOM	9445	N	HIS	1464	-19.727	-2.585	69.741	1.00	16.30
ATOM	9446	CA	HIS	1464	-21.069	-2.053	69.944	1.00	16.80
ATOM	9447	CB	HIS	1464	-21.623	-3.538	71.389	1.00	16.63
ATOM	9448	CG	HIS	1464	-21.954	-4.018	71.343	1.00	16.65
ATOM	9449	CD2	HIS	1464	-21.226	-4.995	71.033	1.00	16.98
ATOM	9450	ND1	HIS	1464	-22.818	-4.644	70.385	1.00	16.94
ATOM	9451	OE1	HIS	1464	-22.776	-5.945	70.215	1.00	16.36
ATOM	9452	NE2	HIS	1464	-21.816	-6.185	71.683	1.00	16.96
ATOM	9453	C	HIS	1464	-21.942	-6.535	69.927	1.00	16.95
ATOM	9454	O	HIS	1464	-21.911	-5.659	69.743	1.00	16.98
ATOM	9455	OX	HIS	1464	-20.156	-5.068	70.583	1.00	16.55
ATOM	9456	C1	EPL	1465	-8.662	-8.598	56.997	1.00	16.66
ATOM	9457	C2	EPL	1465	-8.406	-8.751	55.651	1.00	16.02
ATOM	9458	C3	EPL	1465	-9.470	-10.212	55.264	1.00	16.28
ATOM	9459	C4	EPL	1465	-10.847	-8.205	55.810	1.00	16.40
ATOM	9460	O1	EPL	1465	-10.844	-6.822	56.181	1.00	16.78
ATOM	9461	C5	EPL	1465	-8.646	-7.947	54.549	1.00	16.37

ATOM	9962	C	PHE	1462	-11.157	-31.183	-4.1365	1.00	33.59
ATOM	9963	N	PHE	1463	-9.2368	-34.166	-34.133	1.00	33.59
ATOM	9964	O	PHE	1465	-6.611	-39.157	-34.369	1.00	33.59
ATOM	9965	H	PHE	1466	-6.578	-39.581	-33.131	1.00	31.33
ATOM	9966	CP	MET	1501	12.451	-25.581	-6.157	1.00	68.45
ATOM	9967	CA	MET	1501	12.883	-25.384	-7.057	1.00	60.78
ATOM	9968	CB	MET	1501	14.555	-25.814	-6.444	1.00	73.31
ATOM	9969	CG	MET	1501	17.640	-24.229	-5.381	1.00	51.59
ATOM	9970	C	MET	1501	14.232	-26.666	-5.125	1.00	64.43
ATOM	9971	O	MET	1501	14.943	-27.114	-5.740	1.00	64.43
ATOM	9972	N	MET	1501	14.252	-24.188	-5.666	1.00	67.20
ATOM	9973	CZ	MET	1501	13.464	-25.195	-5.660	1.00	66.34
ATOM	9974	H	LYS	1502	15.270	-26.551	-4.351	1.00	61.83
ATOM	9975	CA	LYS	1502	16.137	-27.686	-4.627	1.00	68.35
ATOM	9976	CB	LYS	1502	17.586	-27.453	-4.719	1.00	59.36
ATOM	9977	CG	LYS	1502	17.454	-27.165	-5.219	1.00	59.84
ATOM	9978	CD	LYS	1502	16.747	-28.314	-6.992	1.00	60.11
ATOM	9979	CE	LYS	1502	17.479	-29.641	-6.821	1.00	66.11
ATOM	9980	NZ	LYS	1502	16.738	-30.131	-7.593	1.00	60.70
ATOM	9981	C	LYS	1502	17.286	-27.908	-7.567	1.00	55.49
ATOM	9982	O	LYS	1502	16.023	-29.039	-7.083	1.00	56.98
ATOM	9983	N	PRO	1503	16.733	-26.918	-7.795	1.00	61.11
ATOM	9984	CD	PRO	1503	16.674	-27.002	-9.313	1.00	49.69
ATOM	9985	CA	PRO	1503	17.082	-27.554	-8.213	1.00	46.11
ATOM	9986	CB	PRO	1503	16.764	-24.739	-9.953	1.00	48.28
ATOM	9987	CG	PRO	1503	17.226	-25.653	-9.112	1.00	49.41
ATOM	9988	C	PRO	1503	16.558	-25.434	-9.616	1.00	42.37
ATOM	9989	O	PRO	1503	15.321	-26.169	-9.433	1.00	41.64
ATOM	9990	N	THR	1504	15.929	-24.274	-3.147	1.00	77.50
ATOM	9991	CA	THR	1504	23.361	-24.024	-3.565	1.00	73.10
ATOM	9992	CB	THR	1504	20.371	-22.784	-4.485	1.00	62.53
ATOM	9993	CG1	THR	1504	19.578	-23.611	-5.813	1.00	73.15
ATOM	9994	CG2	THR	1504	21.808	-22.562	-4.905	1.00	69.59
ATOM	9995	C	THR	1504	21.150	-23.805	-2.342	1.00	61.99
ATOM	9996	O	THR	1504	20.826	-23.069	-1.475	1.00	69.39
ATOM	9997	N	THR	1503	21.354	-24.446	-2.352	1.00	60.78
ATOM	9998	CA	THR	1503	23.171	-24.304	-1.238	1.00	69.65
ATOM	9999	CB	THR	1503	21.354	-23.619	-1.369	1.00	69.65
ATOM	10000	C	THR	1503	21.894	-26.674	-1.158	1.00	61.33
ATOM	10001	CG1	THR	1503	21.896	-26.029	-0.056	1.00	69.10
ATOM	10002	C	THR	1503	21.695	-24.014	-1.659	1.00	69.48
ATOM	10003	O	THR	1503	21.904	-24.856	-2.850	1.00	77.32
ATOM	10004	N	ILE	1505	21.311	-23.108	-6.033	1.00	69.78
ATOM	10005	CA	ILE	1505	23.981	-23.891	-6.855	1.00	60.15
ATOM	10006	CB	ILE	1505	22.323	-22.198	-9.331	1.00	61.62
ATOM	10007	CG2	ILE	1505	23.127	-22.587	-8.013	1.00	63.67
ATOM	10008	C	ILE	1505	22.967	-22.565	-7.161	1.00	61.35
ATOM	10009	CG1	ILE	1505	22.481	-21.856	-7.556	1.00	63.42
ATOM	10010	C	ILE	1505	22.559	-24.568	-1.705	1.00	60.17
ATOM	10011	O	ILE	1505	18.573	-24.394	-2.491	1.00	68.44
ATOM	10012	H	SEP	1506	27.557	-25.733	-1.441	1.00	61.73
ATOM	10013	CA	SEP	1506	27.557	-26.388	-2.059	1.00	63.44
ATOM	10014	CB	SEP	1506	26.575	-26.186	-1.636	1.00	64.13
ATOM	10015	CG1	SEP	1506	26.575	-26.258	-0.238	1.00	69.35
ATOM	10016	C	SEP	1506	27.557	-26.889	-2.560	1.00	63.88
ATOM	10017	O	SEP	1506	26.551	-27.769	-4.234	1.00	63.44
ATOM	10018	N	LEU	1507	27.477	-26.383	-4.133	1.00	61.66
ATOM	10019	CA	LEU	1507	27.361	-26.242	-5.581	1.00	62.66
ATOM	10020	CB	LEU	1507	24.877	-25.710	-5.958	1.00	64.71
ATOM	10021	CG1	LEU	1507	24.651	-26.878	-6.761	1.00	66.76
ATOM	10022	CG2	LEU	1507	22.694	-25.990	-6.951	1.00	66.00
ATOM	10023	C	LEU	1507	24.661	-25.114	-8.069	1.00	66.53
ATOM	10024	O	LEU	1503	27.477	-25.307	-6.156	1.00	61.60
ATOM	10025	O	LEU	1503	28.012	-25.597	-7.156	1.00	72.66
ATOM	10026	N	LEU	1509	27.659	-24.187	-5.482	1.00	69.67
ATOM	10027	CA	LEU	1509	28.648	-23.217	-5.959	1.00	69.54
ATOM	10028	CB	LEU	1509	28.595	-21.946	-5.116	1.00	69.54
ATOM	10029	CG1	LEU	1509	27.237	-21.237	-5.105	1.00	69.15
ATOM	10030	CG2	LEU	1509	27.350	-19.898	-4.383	1.00	60.53
ATOM	10031	C	LEU	1509	26.748	-21.011	-6.535	1.00	68.87
ATOM	10032	O	LEU	1509	30.044	-23.830	-5.927	1.00	60.18
ATOM	10033	O	LEU	1509	30.875	-23.559	-6.799	1.00	67.72
ATOM	10034	H	GLN	1510	30.294	-24.658	-4.920	1.00	60.60
ATOM	10035	CA	GLN	1510	31.587	-25.398	-4.779	1.00	62.85
ATOM	10036	CB	GLN	1510	31.674	-26.008	-3.419	1.00	62.25
ATOM	10037	CG	GLN	1510	33.959	-26.521	-3.051	1.00	64.03
ATOM	10038	CD	GLN	1510	33.137	-25.452	-3.146	1.00	65.55

ATOM	10040	HE1	GLN	1510	24.473	-25.187	-24.117	1.00	34.71
ATOM	10040	HE2	GLN	1510	24.412	-25.294	-24.117	1.00	34.74
ATOM	10041	C	GLN	1510	21.747	-23.412	-23.412	1.00	34.79
ATOM	10042	C	GLN	1510	21.812	-23.537	-23.438	1.00	34.79
ATOM	10043	N	LYS	1511	20.636	-27.800	-26.845	1.00	35.14
ATOM	10044	CA	LYS	1511	20.659	-27.804	-27.447	1.00	35.38
ATOM	10045	CB	LYS	1511	20.209	-28.574	-27.573	1.00	35.13
ATOM	10046	CG	LYS	1511	20.149	-29.367	-28.555	1.00	35.56
ATOM	10047	CD	LYS	1511	20.711	-29.594	-28.553	1.00	35.87
ATOM	10048	CE	LYS	1511	20.973	-30.517	-28.299	1.00	35.00
ATOM	10049	NZ	LYS	1511	25.576	-30.676	-27.646	1.00	37.60
ATOM	10050	C	LYS	1511	20.845	-27.127	-27.740	1.00	35.89
ATOM	10051	C	LYS	1511	19.654	-27.619	-27.553	1.00	37.12
ATOM	10052	N	TYR	1512	20.311	-25.942	-25.829	1.00	35.34
ATOM	10053	CA	TYR	1512	20.950	-25.141	-25.032	1.00	35.65
ATOM	10054	CB	TYR	1512	25.659	-23.730	-23.053	1.00	37.18
ATOM	10055	CG	TYR	1512	28.113	-24.138	-23.213	1.00	39.10
ATOM	10056	CH	TYR	1512	27.219	-23.175	-23.051	1.00	41.66
ATOM	10057	HE1	TYR	1512	25.819	-23.429	-23.135	1.00	42.03
ATOM	10058	HE2	TYR	1512	27.719	-23.429	-23.523	1.00	43.61
ATOM	10059	HE3	TYR	1512	26.341	-23.173	-23.673	1.00	41.79
ATOM	10060	CE	TYR	1512	25.565	-24.713	-23.550	1.00	42.00
ATOM	10061	OH	TYR	1512	24.115	-24.963	-23.646	1.00	43.50
ATOM	10062	C	TYR	1512	22.002	-24.718	-23.628	1.00	36.95
ATOM	10063	C	TYR	1512	22.472	-24.771	-23.437	1.00	34.44
ATOM	10064	N	LYS	1513	22.654	-24.277	-23.274	1.00	35.91
ATOM	10065	CA	LYS	1513	24.054	-23.856	-23.426	1.00	37.24
ATOM	10066	CB	LYS	1513	24.846	-23.562	-23.090	1.00	35.00
ATOM	10067	CG	LYS	1513	26.146	-23.108	-22.136	1.00	37.35
ATOM	10068	CD	LYS	1513	26.544	-22.091	-21.026	1.00	37.64
ATOM	10069	CE	LYS	1513	28.003	-21.648	-20.138	1.00	36.35
ATOM	10070	NZ	LYS	1513	28.354	-20.581	-19.523	1.00	39.60
ATOM	10071	C	LYS	1513	24.907	-25.022	-23.954	1.00	38.69
ATOM	10072	C	LYS	1513	25.870	-24.829	-23.634	1.00	39.24
ATOM	10073	N	GLN	1514	24.517	-26.131	-25.567	1.00	40.60
ATOM	10074	CA	GLN	1514	25.205	-27.433	-26.945	1.00	41.18
ATOM	10075	CB	GLN	1514	24.711	-28.623	-28.127	1.00	45.15
ATOM	10076	CG	GLN	1514	25.117	-28.585	-28.710	1.00	46.35
ATOM	10077	CD	GLN	1514	24.431	-29.604	-28.855	1.00	46.85
ATOM	10078	HE1	GLN	1514	24.111	-30.668	-29.343	1.00	51.13
ATOM	10079	HE2	GLN	1514	24.311	-29.704	-29.570	1.00	50.45
ATOM	10080	C	GLN	1514	24.906	-27.704	-27.470	1.00	47.74
ATOM	10081	C	GLN	1514	25.810	-29.138	-27.250	1.00	44.34
ATOM	10082	N	GLU	1515	23.710	-27.418	-27.362	1.00	47.52
ATOM	10083	CA	GLU	1515	23.335	-27.617	-27.341	1.00	47.19
ATOM	10084	CB	GLU	1515	21.810	-27.975	-27.344	1.00	44.55
ATOM	10085	CG	GLU	1515	21.311	-29.001	-27.502	1.00	46.62
ATOM	10086	CD	GLU	1515	20.909	-29.439	-27.773	1.00	48.55
ATOM	10087	HE1	GLU	1515	20.911	-28.501	-27.825	1.00	48.59
ATOM	10088	HE2	GLU	1515	20.800	-30.637	-27.927	1.00	51.43
ATOM	10089	C	GLU	1515	23.876	-26.413	-26.156	1.00	47.44
ATOM	10090	C	GLU	1515	23.418	-26.706	-26.343	1.00	47.10
ATOM	10091	N	LYS	1516	24.115	-29.405	-28.406	1.00	47.75
ATOM	10092	CA	LYS	1516	24.803	-24.152	-23.175	1.00	35.35
ATOM	10093	CB	LYS	1516	25.845	-24.439	-23.132	1.00	34.90
ATOM	10094	CG	LYS	1516	27.065	-23.511	-22.773	1.00	35.13
ATOM	10095	CD	LYS	1516	27.514	-24.235	-23.415	1.00	35.19
ATOM	10096	CE	LYS	1516	28.054	-24.585	-23.406	1.00	36.49
ATOM	10097	NZ	LYS	1516	29.900	-24.831	-23.670	1.00	38.49
ATOM	10098	C	LYS	1516	23.408	-23.475	-23.728	1.00	38.14
ATOM	10099	O	LYS	1516	23.512	-22.381	-23.715	1.00	37.51
ATOM	10100	N	ARG	1517	22.219	-23.117	-23.170	1.00	35.26
ATOM	10101	CA	ARG	1517	21.013	-23.116	-23.630	1.00	35.69
ATOM	10102	CB	ARG	1517	20.807	-24.044	-23.385	1.00	34.32
ATOM	10103	CG	ARG	1517	28.437	-23.587	-23.904	1.00	36.09
ATOM	10104	CD	ARG	1517	27.332	-24.446	-23.384	1.00	37.44
ATOM	10105	CE	ARG	1517	27.433	-25.806	-23.932	1.00	36.19
ATOM	10106	NZ	ARG	1517	26.313	-26.177	-23.131	1.00	41.56
ATOM	10107	C	ARG	1517	20.705	-21.813	-21.878	1.00	37.85
ATOM	10108	O	ARG	1517	20.366	-21.830	-21.715	1.00	37.00
ATOM	10109	N	ARG	1518	21.018	-20.104	-19.546	1.00	36.53
ATOM	10110	CA	ARG	1518	20.876	-19.399	-19.309	1.00	38.45
ATOM	10111	CB	ARG	1518	21.462	-18.319	-17.805	1.00	36.06
ATOM	10112	CG	ARG	1518	22.961	-18.306	-17.714	1.00	37.46
ATOM	10113	CD	ARG	1518	23.626	-17.471	-16.766	1.00	37.23
ATOM	10114	NE	ARG	1518	23.666	-18.071	-17.074	1.00	35.53
ATOM	10115	CZ	ARG	1518	24.192	-17.523	-16.165	1.00	36.48

ATOM	10116	NR1	ARG	1518	34.115	-18.133	-18.111	1.00	34.115
ATOM	10117	NR2	ARG	1518	34.132	-18.134	-18.108	1.00	34.132
ATOM	10118	C	ARG	1518	29.340	-18.137	-18.085	1.00	29.340
ATOM	10119	O	ARG	1518	18.516	-18.134	-18.085	1.00	18.516
ATOM	10120	N	THE	1519	28.008	-18.276	-18.431	1.00	28.008
ATOM	10121	CA	THE	1519	17.875	-18.516	-18.656	1.00	17.875
ATOM	10122	CB	THE	1519	27.133	-18.397	-19.841	1.00	27.133
ATOM	10123	CG	THE	1519	28.151	-18.113	-19.646	1.00	28.151
ATOM	10124	CD1	THE	1519	27.329	-18.085	-18.745	1.00	27.329
ATOM	10125	CD2	THE	1519	29.111	-18.851	-19.418	1.00	29.111
ATOM	10126	CE1	THE	1519	28.850	-17.800	-19.688	1.00	28.850
ATOM	10127	CE2	THE	1519	30.112	-18.575	-19.841	1.00	30.112
ATOM	10128	CZ	THE	1519	28.110	-18.547	-19.457	1.00	28.110
ATOM	10129	C	THE	1519	27.156	-17.048	-11.738	1.00	27.156
ATOM	10130	O	THE	1519	28.118	-16.314	-11.310	1.00	28.118
ATOM	10131	N	ALA	1520	26.113	-16.627	-11.944	1.00	26.113
ATOM	10132	CA	ALA	1520	25.112	-16.250	-11.677	1.00	25.112
ATOM	10133	CB	ALA	1520	24.823	-16.247	-12.832	1.00	24.823
ATOM	10134	C	ALA	1520	24.881	-16.088	-10.332	1.00	24.881
ATOM	10135	O	ALA	1520	24.141	-16.980	-9.946	1.00	24.141
ATOM	10136	N	THR	1521	25.130	-16.973	-9.658	1.00	25.130
ATOM	10137	CA	THR	1521	24.142	-16.663	-8.406	1.00	24.142
ATOM	10138	CB	THR	1521	25.816	-16.736	-9.213	1.00	25.816
ATOM	10139	CG1	THR	1521	26.111	-16.070	-9.183	1.00	26.111
ATOM	10140	CG2	THR	1521	24.967	-16.386	-9.934	1.00	24.967
ATOM	10141	C	THR	1521	24.030	-16.250	-8.445	1.00	24.030
ATOM	10142	O	THR	1521	24.485	-16.415	-9.340	1.00	24.485
ATOM	10143	N	ILE	1522	25.143	-16.142	-9.666	1.00	25.143
ATOM	10144	CA	ILE	1522	24.147	-16.626	-9.716	1.00	24.147
ATOM	10145	CB	ILE	1522	24.112	-16.634	-8.716	1.00	24.112
ATOM	10146	CG1	ILE	1522	26.143	-16.381	-8.084	1.00	26.143
ATOM	10147	CG2	ILE	1522	20.848	-16.214	-9.135	1.00	20.848
ATOM	10148	CD1	ILE	1522	24.865	-16.650	-10.134	1.00	24.865
ATOM	10149	C	ILE	1522	24.911	-16.151	-8.386	1.00	24.911
ATOM	10150	O	ILE	1522	24.141	-16.916	-9.445	1.00	24.141
ATOM	10151	N	THR	1523	24.115	-16.818	-8.212	1.00	24.115
ATOM	10152	CA	THR	1523	24.111	-16.286	-8.982	1.00	24.111
ATOM	10153	CB	THR	1523	24.115	-16.818	-8.612	1.00	24.115
ATOM	10154	CG1	THR	1523	24.113	-16.915	-8.618	1.00	24.113
ATOM	10155	CG2	THR	1523	23.115	-16.828	-8.680	1.00	23.115
ATOM	10156	C	THR	1523	19.116	-16.215	-8.083	1.00	19.116
ATOM	10157	O	THR	1523	19.110	-16.196	-8.116	1.00	19.110
ATOM	10158	N	ALA	1524	19.111	-16.313	-8.913	1.00	19.111
ATOM	10159	CA	ALA	1524	18.875	-16.110	-8.813	1.00	18.875
ATOM	10160	CB	ALA	1524	18.110	-16.810	-8.111	1.00	18.110
ATOM	10161	C	ALA	1524	18.116	-16.719	-8.516	1.00	18.116
ATOM	10162	O	ALA	1524	18.843	-16.102	-8.517	1.00	18.843
ATOM	10163	N	TYR	1525	16.114	-16.916	-8.412	1.00	16.114
ATOM	10164	CA	TYR	1525	16.113	-16.846	-8.116	1.00	16.113
ATOM	10165	CB	TYR	1525	16.117	-16.866	-8.112	1.00	16.117
ATOM	10166	CG	TYR	1525	16.113	-16.846	-8.112	1.00	16.113
ATOM	10167	CD1	TYR	1525	16.117	-16.846	-8.112	1.00	16.117
ATOM	10168	CD2	TYR	1525	16.113	-16.846	-8.112	1.00	16.113
ATOM	10169	CE1	TYR	1525	16.113	-16.846	-8.112	1.00	16.113
ATOM	10170	CE2	TYR	1525	16.113	-16.846	-8.112	1.00	16.113
ATOM	10171	C	TYR	1525	16.113	-16.846	-8.112	1.00	16.113
ATOM	10172	O	TYR	1525	16.113	-16.846	-8.112	1.00	16.113
ATOM	10173	N	ASP	1526	16.113	-16.846	-8.112	1.00	16.113
ATOM	10174	CA	ASP	1526	16.113	-16.846	-8.112	1.00	16.113
ATOM	10175	CB	ASP	1526	16.113	-16.846	-8.112	1.00	16.113
ATOM	10176	CG	ASP	1526	16.113	-16.846	-8.112	1.00	16.113
ATOM	10177	OD1	ASP	1526	16.113	-16.846	-8.112	1.00	16.113
ATOM	10178	OD2	ASP	1526	16.113	-16.846	-8.112	1.00	16.113
ATOM	10179	C	ASP	1526	16.113	-16.846	-8.112	1.00	16.113
ATOM	10180	O	ASP	1526	16.113	-16.846	-8.112	1.00	16.113
ATOM	10181	N	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10182	CA	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10183	CB	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10184	CG	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10185	CD1	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10186	CD2	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10187	CE1	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10188	CE2	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10189	CF1	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10190	CF2	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10191	CZ	TYR	1527	16.113	-16.846	-8.112	1.00	16.113
ATOM	10192	CH	TYR	1527	16.113	-16.846	-8.112	1.00	16.113

ATOM	10193	C	TYR	1527	-8.503	-10.1052	-8.501	1.00	14.33
ATOM	10194	C	TYR	1527	9.766	-1.1102	-8.438	1.00	14.31
ATOM	10195	N	SER	1528	9.057	-9.974	-4.543	1.00	14.41
ATOM	10196	CA	SEP	1529	8.825	-1.091	-5.765	1.00	14.84
ATOM	10197	CB	SEP	1529	8.203	-7.637	-6.411	1.00	14.86
ATOM	10198	CG	SEP	1529	6.921	-7.531	-8.801	1.00	14.89
ATOM	10199	C	SEP	1529	10.041	-6.334	-6.806	1.00	14.81
ATOM	10200	O	SEP	1529	9.931	-10.139	-1.255	1.00	15.85
ATOM	10201	N	PHE	1529	11.139	-8.639	-6.619	1.00	15.52
ATOM	10202	CA	PHE	1529	12.315	-8.926	-7.410	1.00	14.35
ATOM	10203	CB	PHE	1529	13.359	-7.817	-7.299	1.00	12.87
ATOM	10204	CG	PHE	1529	13.042	-8.764	-8.215	1.00	14.39
ATOM	10205	CD1	PHE	1529	12.474	-5.511	-7.747	1.00	15.67
ATOM	10206	CD2	PHE	1529	13.413	-6.743	-8.560	1.00	15.32
ATOM	10207	CD1	PHE	1529	12.207	-4.449	-8.699	1.00	15.64
ATOM	10208	CD2	PHE	1529	13.133	-5.695	-10.442	1.00	14.87
ATOM	10209	CZ	PHE	1529	12.564	-4.529	-9.945	1.00	17.73
ATOM	10210	C	PHE	1529	12.909	-10.273	-7.038	1.00	15.50
ATOM	10211	O	PHE	1529	13.384	-11.010	-7.908	1.00	14.17
ATOM	10212	N	ALA	1530	12.865	-10.628	-5.757	1.00	17.35
ATOM	10213	CA	ALA	1530	13.395	-11.925	-5.337	1.00	17.28
ATOM	10214	CB	ALA	1530	13.261	-12.083	-3.619	1.00	11.40
ATOM	10215	C	ALA	1530	12.649	-13.050	-6.050	1.00	27.09
ATOM	10216	O	ALA	1530	13.242	-14.093	-6.546	1.00	14.85
ATOM	10217	N	LYS	1531	11.315	-12.931	-6.987	1.00	15.26
ATOM	10218	CA	LYS	1531	10.478	-13.928	-6.728	1.00	14.54
ATOM	10219	CB	LYS	1531	8.994	-13.535	-6.521	1.00	15.21
ATOM	10220	CG	LYS	1531	7.963	-14.425	-7.195	1.00	16.57
ATOM	10221	CD	LYS	1531	7.576	-15.603	-6.565	1.00	24.21
ATOM	10222	CE	LYS	1531	6.192	-16.116	-6.781	1.00	25.02
ATOM	10223	NZ	LYS	1531	6.169	-16.393	-8.238	1.00	23.58
ATOM	10224	C	LYS	1531	10.773	-14.020	-8.221	1.00	15.65
ATOM	10225	O	LYS	1531	10.854	-15.114	-8.787	1.00	13.34
ATOM	10226	N	LEU	1532	10.941	-12.863	-8.851	1.00	15.51
ATOM	10227	CA	LEU	1532	11.238	-12.793	-10.283	1.00	15.37
ATOM	10228	CB	LEU	1532	11.295	-11.326	-10.721	1.00	18.67
ATOM	10229	CG	LEU	1532	11.485	-11.051	-12.133	1.00	13.64
ATOM	10230	CD1	LEU	1532	11.409	-9.414	-12.551	1.00	18.17
ATOM	10231	CD2	LEU	1532	12.957	-11.316	-12.617	1.00	18.81
ATOM	10232	C	LEU	1532	12.915	-13.507	-10.695	1.00	15.94
ATOM	10233	O	LEU	1532	13.612	-14.337	-11.533	1.00	14.14
ATOM	10234	N	PHE	1533	13.634	-13.201	-9.844	1.00	16.73
ATOM	10235	CA	PHE	1533	14.905	-13.821	-10.363	1.00	16.95
ATOM	10236	CB	PHE	1533	15.965	-13.348	-9.166	1.00	16.04
ATOM	10237	CG	PHE	1533	16.168	-11.762	-9.227	1.00	16.65
ATOM	10238	CD1	PHE	1533	15.971	-11.111	-10.446	1.00	18.19
ATOM	10239	CD2	PHE	1533	16.564	-11.611	-8.112	1.00	14.45
ATOM	10240	CE1	PHE	1533	16.117	-9.735	-10.554	1.00	18.81
ATOM	10241	CE2	PHE	1533	16.754	-9.631	-8.223	1.00	14.25
ATOM	10242	CZ	PHE	1533	16.549	-8.991	-9.443	1.00	18.42
ATOM	10243	C	PHE	1533	14.814	-10.587	-9.852	1.00	17.37
ATOM	10244	O	PHE	1533	15.217	-16.112	-10.689	1.00	17.81
ATOM	10245	N	ALA	1534	14.217	-15.545	-8.742	1.00	17.45
ATOM	10246	CA	ALA	1534	14.065	-15.556	-8.415	1.00	16.53
ATOM	10247	CB	ALA	1534	13.979	-15.577	-7.574	1.00	13.47
ATOM	10248	C	ALA	1534	13.116	-17.881	-6.585	1.00	11.04
ATOM	10249	O	ALA	1534	13.816	-16.185	-9.811	1.00	16.41
ATOM	10250	N	ASP	1535	12.318	-15.147	-10.085	1.00	22.15
ATOM	10251	CA	ASP	1535	11.550	-15.876	-11.121	1.00	22.54
ATOM	10252	CB	ASP	1535	10.712	-17.169	-11.385	1.00	14.94
ATOM	10253	CG	ASP	1535	9.228	-17.161	-10.259	1.00	26.10
ATOM	10254	OD1	ASP	1535	9.260	-18.268	-9.553	1.00	19.47
ATOM	10255	OD2	ASP	1535	8.398	-16.757	-10.093	1.00	30.35
ATOM	10256	C	ASP	1535	12.287	-18.047	-12.447	1.00	22.47
ATOM	10257	O	ASP	1535	11.874	-18.821	-13.296	1.00	22.23
ATOM	10258	N	GLU	1536	13.366	-17.311	-12.617	1.00	23.56
ATOM	10259	CA	GLU	1536	14.187	-17.467	-13.828	1.00	23.73
ATOM	10260	CB	GLU	1536	14.678	-16.024	-14.778	1.00	23.59
ATOM	10261	CG	GLU	1536	13.582	-15.084	-14.756	1.00	25.82
ATOM	10262	CD	GLU	1536	12.706	-15.718	-15.814	1.00	26.18
ATOM	10263	OE1	GLU	1536	13.256	-16.349	-16.739	1.00	25.26
ATOM	10264	OE2	GLU	1536	11.459	-15.575	-15.718	1.00	26.71
ATOM	10265	C	GLU	1536	15.397	-18.325	-13.672	1.00	24.75
ATOM	10266	O	GLU	1536	15.973	-18.784	-14.654	1.00	26.28
ATOM	10267	N	GLY	1537	15.797	-18.583	-12.433	1.00	25.87
ATOM	10268	CA	GLY	1537	16.944	-19.447	-12.323	1.00	25.64
ATOM	10269	C	GLY	1537	18.037	-19.855	-11.356	1.00	24.92

ATOM	10150	C	GLY	1547	18.693	-11.277	-10.881	1.00	10.148
ATOM	10151	N	GLY	1547	18.611	-11.540	-11.148	1.00	14.97
ATOM	10152	CA	LEU	1548	19.015	-16.872	-10.709	1.00	14.22
ATOM	10153	CB	LEU	1548	19.534	-17.356	-11.448	1.00	14.57
ATOM	10154	CG	LEU	1548	20.087	-17.653	-11.753	1.00	16.59
ATOM	10155	CD1	LEU	1548	19.968	-18.170	-11.798	1.00	14.50
ATOM	10156	CD2	LEU	1548	21.407	-18.279	-10.877	1.00	14.08
ATOM	10157	C	LEU	1548	18.683	-17.203	-8.877	1.00	14.34
ATOM	10158	O	LEU	1548	17.831	-16.580	-8.241	1.00	11.67
ATOM	10159	N	ASN	1549	19.373	-17.235	-8.349	1.00	14.14
ATOM	10160	CA	ASN	1549	19.146	-17.710	-6.989	1.00	14.07
ATOM	10161	CB	ASN	1549	19.141	-22.126	-6.991	1.00	15.41
ATOM	10162	CG	ASN	1549	18.057	-22.187	-7.877	1.00	19.37
ATOM	10163	CD1	ASN	1549	16.946	-22.313	-7.345	1.00	11.66
ATOM	10164	CD2	ASN	1549	18.467	-22.906	-8.560	1.00	12.11
ATOM	10165	C	ASN	1549	20.129	-17.146	-5.205	1.00	11.17
ATOM	10166	O	ASN	1549	20.108	-16.715	-4.767	1.00	12.17
ATOM	10167	N	VAL	1540	20.473	-17.703	-6.219	1.00	18.19
ATOM	10168	CA	VAL	1540	21.923	-16.718	-5.215	1.00	17.11
ATOM	10169	CB	VAL	1540	20.391	-17.843	-5.872	1.00	16.77
ATOM	10170	CG1	VAL	1540	24.631	-16.516	-4.358	1.00	19.43
ATOM	10171	CG2	VAL	1540	23.611	-17.517	-5.941	1.00	17.14
ATOM	10172	C	VAL	1540	21.697	-16.284	-5.101	1.00	15.46
ATOM	10173	O	VAL	1540	21.911	-16.547	-6.113	1.00	14.11
ATOM	10174	N	MET	1541	21.017	-14.845	-4.008	1.00	14.44
ATOM	10175	CA	MET	1541	20.921	-15.437	-3.815	1.00	14.69
ATOM	10176	CB	MET	1541	19.408	-16.236	-3.696	1.00	16.00
ATOM	10177	CG	MET	1541	18.661	-17.438	-4.990	1.00	17.44
ATOM	10178	SD	MET	1541	16.907	-17.405	-4.789	1.00	18.44
ATOM	10179	CE	MET	1541	16.467	-17.608	-5.443	1.00	17.63
ATOM	10180	C	MET	1541	21.577	-17.869	-2.586	1.00	14.71
ATOM	10181	O	MET	1541	21.777	-17.564	-1.587	1.00	15.71
ATOM	10182	N	LEU	1542	21.887	-17.535	-2.656	1.00	14.70
ATOM	10183	CA	LEU	1542	22.513	-19.910	-1.537	1.00	13.11
ATOM	10184	CB	LEU	1542	22.997	-17.157	-1.923	1.00	16.75
ATOM	10185	CG	LEU	1542	24.174	-17.213	-0.984	1.00	22.77
ATOM	10186	CD1	LEU	1542	24.657	-17.278	-1.204	1.00	25.11
ATOM	10187	CD2	LEU	1542	24.678	-19.149	0.481	1.00	19.05
ATOM	10188	C	LEU	1542	21.708	-17.716	-1.077	1.00	11.78
ATOM	10189	O	LEU	1542	21.418	-17.813	-1.860	1.00	14.79
ATOM	10190	N	VAL	1543	21.334	-17.711	0.210	1.00	13.83
ATOM	10191	CA	VAL	1543	20.637	-18.530	0.805	1.00	12.83
ATOM	10192	CB	VAL	1543	19.580	-19.043	1.918	1.00	14.77
ATOM	10193	CG1	VAL	1543	19.001	-17.811	2.512	1.00	19.11
ATOM	10194	CG2	VAL	1543	16.777	-19.009	1.344	1.00	13.81
ATOM	10195	C	VAL	1543	21.848	-17.705	1.377	1.00	14.83
ATOM	10196	O	VAL	1543	22.264	-17.948	2.516	1.00	14.81
ATOM	10197	N	GLY	1544	22.170	-17.713	0.557	1.00	14.13
ATOM	10198	CA	GLY	1544	21.117	-17.008	0.968	1.00	16.41
ATOM	10199	C	GLY	1544	21.750	-17.513	1.471	1.00	16.13
ATOM	10200	O	GLY	1544	22.117	-17.115	1.257	1.00	17.73
ATOM	10201	N	ASP	1545	24.117	-18.116	3.176	1.00	16.81
ATOM	10202	CA	ASP	1545	23.917	-17.706	3.796	1.00	16.81
ATOM	10203	CB	ASP	1545	24.800	-17.434	3.809	1.00	16.81
ATOM	10204	CG	ASP	1545	26.417	-17.947	3.354	1.00	17.17
ATOM	10205	CD1	ASP	1545	26.613	-17.716	3.117	1.00	16.81
ATOM	10206	CD2	ASP	1545	22.777	-17.814	4.141	1.00	16.81
ATOM	10207	C	ASP	1545	21.910	-17.705	1.613	1.00	15.12
ATOM	10208	O	ASP	1545	23.710	-17.518	1.966	1.00	17.17
ATOM	10209	N	SER	1546	24.000	-17.713	0.313	1.00	15.11
ATOM	10210	CA	SER	1546	23.960	-17.817	-0.752	1.00	13.83
ATOM	10211	CB	SER	1546	24.217	-17.016	-2.017	1.00	16.00
ATOM	10212	CG	SER	1546	23.499	-17.213	-2.157	1.00	16.81
ATOM	10213	C	SER	1546	22.574	-17.711	-0.725	1.00	15.11
ATOM	10214	O	SER	1546	22.100	-17.346	-1.289	1.00	16.83
ATOM	10215	N	LEU	1547	21.635	-17.411	-0.957	1.00	13.87
ATOM	10216	CA	LEU	1547	20.257	-17.904	0.933	1.00	13.10
ATOM	10217	CB	LEU	1547	19.159	-17.801	0.804	1.00	14.09
ATOM	10218	CG	LEU	1547	19.731	-17.203	2.259	1.00	11.97
ATOM	10219	CD1	LEU	1547	19.688	-17.193	3.174	1.00	15.63
ATOM	10220	CD2	LEU	1547	19.161	-17.611	2.631	1.00	16.19
ATOM	10221	C	LEU	1547	20.149	-17.411	0.711	1.00	15.72
ATOM	10222	O	LEU	1547	19.402	-17.249	0.556	1.00	12.12
ATOM	10223	N	GLY	1548	21.402	-17.708	1.462	1.00	14.77
ATOM	10224	CA	GLY	1548	21.386	-17.009	2.128	1.00	13.78
ATOM	10225	C	GLY	1548	21.310	-17.167	1.120	1.00	15.41
ATOM	10226	O	GLY	1548	20.786	-17.267	1.403	1.00	15.57

ATOM	10347	N	MET	1549	21.805	21.814	-0.008	1.00	18.29
ATOM	10348	CA	MET	1549	21.815	21.900	-0.085	1.00	18.79
ATOM	10349	CB	MET	1549	23.198	23.852	-0.654	1.00	18.80
ATOM	10350	CG	MET	1549	24.346	24.147	+0.199	1.00	19.11
ATOM	10351	CD	MET	1549	26.011	25.963	+0.048	1.00	19.69
ATOM	10352	CE	MET	1549	26.138	25.439	+0.699	1.00	19.23
ATOM	10353	C	MET	1549	26.696	26.703	-0.007	1.00	17.66
ATOM	10354	O	MET	1549	19.935	20.627	-0.692	1.00	19.00
ATOM	10355	N	THR	1550	26.567	26.495	+0.072	1.00	17.07
ATOM	10356	CA	THR	1550	19.529	21.274	-1.745	1.00	17.57
ATOM	10357	CB	THR	1550	19.809	20.941	-1.132	1.00	21.76
ATOM	10358	CG1	THR	1550	18.537	0.665	+17.872	1.00	19.64
ATOM	10359	CG2	THR	1550	19.953	-0.219	+20.172	1.00	19.49
ATOM	10360	C	THR	1550	18.103	2.191	-16.294	1.00	17.10
ATOM	10361	O	THR	1550	17.144	2.507	-14.363	1.00	19.51
ATOM	10362	N	VAL	1551	17.949	1.800	+16.149	1.00	16.88
ATOM	10363	CA	VAL	1551	18.616	1.741	+16.875	1.00	15.66
ATOM	10364	CB	VAL	1551	18.417	0.413	+18.004	1.00	16.17
ATOM	10365	CG1	VAL	1551	18.077	0.454	+17.623	1.00	15.49
ATOM	10366	CG2	VAL	1551	18.476	-0.760	+19.236	1.00	17.10
ATOM	10367	C	VAL	1551	18.144	2.919	-14.775	1.00	14.94
ATOM	10368	O	VAL	1551	18.351	3.635	-15.284	1.00	13.06
ATOM	10369	N	GLN	1552	17.231	3.155	-14.076	1.00	13.60
ATOM	10370	CA	GLN	1552	17.041	4.242	-15.196	1.00	13.62
ATOM	10371	CB	GLN	1552	17.857	3.963	-13.906	1.00	14.56
ATOM	10372	CG	GLN	1552	17.589	2.519	-15.070	1.00	15.64
ATOM	10373	CD	GLN	1552	18.298	2.250	-16.048	1.00	14.11
ATOM	10374	OE1	GLN	1552	18.342	2.875	-15.533	1.00	17.01
ATOM	10375	NE2	GLN	1552	17.744	1.372	-16.372	1.00	12.68
ATOM	10376	C	GLN	1552	17.394	5.610	-16.204	1.00	12.37
ATOM	10377	O	GLN	1552	18.892	6.615	-15.703	1.00	13.34
ATOM	10378	N	GLY	1553	18.312	5.643	-16.331	1.00	13.54
ATOM	10379	CA	GLY	1553	18.679	6.914	-15.245	1.00	12.70
ATOM	10380	C	GLY	1553	18.761	7.697	-16.136	1.00	14.01
ATOM	10381	O	GLY	1553	18.953	8.965	-16.012	1.00	14.75
ATOM	10382	N	HIS	1554	20.563	6.349	-14.214	1.00	26.13
ATOM	10383	CA	HIS	1554	21.654	7.615	-14.161	1.00	26.13
ATOM	10384	CB	HIS	1554	21.958	8.810	-13.852	1.00	26.48
ATOM	10385	CG	HIS	1554	21.902	8.847	-13.945	1.00	26.48
ATOM	10386	CD2	HIS	1554	20.267	5.814	-14.453	1.00	26.37
ATOM	10387	ND1	HIS	1554	20.599	7.344	-13.255	1.00	26.37
ATOM	10388	CE1	HIS	1554	19.654	7.415	-12.139	1.00	21.71
ATOM	10389	NE2	HIS	1554	19.423	6.319	-13.104	1.00	26.82
ATOM	10390	C	HIS	1554	22.845	7.741	-15.104	1.00	23.59
ATOM	10391	O	HIS	1554	22.867	7.691	-15.176	1.00	23.61
ATOM	10392	N	ASP	1555	23.921	8.614	-15.307	1.00	23.50
ATOM	10393	CA	ASP	1555	25.907	9.712	-16.185	1.00	23.96
ATOM	10394	CB	ASP	1555	25.659	10.113	-16.454	1.00	23.11
ATOM	10395	CG	ASP	1555	25.941	12.575	-17.634	1.00	24.15
ATOM	10396	CD1	ASP	1555	26.703	9.476	-17.227	1.00	27.32
ATOM	10397	CD2	ASP	1555	25.411	11.366	-16.487	1.00	40.65
ATOM	10398	C	ASP	1555	26.295	7.641	-18.654	1.00	25.41
ATOM	10399	O	ASP	1555	27.045	7.411	-19.634	1.00	27.42
ATOM	10400	N	SER	1556	25.841	6.212	-19.629	1.00	27.66
ATOM	10401	CA	SER	1556	26.743	5.717	-21.026	1.00	29.58
ATOM	10402	CB	SER	1556	26.862	4.113	-22.749	1.00	28.15
ATOM	10403	CG	SER	1556	27.499	4.417	-23.082	1.00	29.30
ATOM	10404	C	SER	1556	26.997	4.417	-22.580	1.00	28.15
ATOM	10405	O	SER	1556	24.791	4.719	-20.491	1.00	26.40
ATOM	10406	N	THR	1557	26.645	3.511	-23.134	1.00	16.59
ATOM	10407	CA	THR	1557	26.921	2.313	-24.608	1.00	16.89
ATOM	10408	CB	THR	1557	26.632	1.013	-25.619	1.00	17.69
ATOM	10409	CG1	THR	1557	27.265	0.911	-26.354	1.00	17.96
ATOM	10410	CG2	THR	1557	26.693	0.916	-25.777	1.00	17.62
ATOM	10411	C	THR	1557	26.073	2.310	-23.783	1.00	16.35
ATOM	10412	O	THR	1557	25.424	1.510	-23.914	1.00	16.54
ATOM	10413	N	LEU	1558	26.858	3.257	-23.601	1.00	15.68
ATOM	10414	CA	LEU	1558	27.018	3.311	-23.738	1.00	16.74
ATOM	10415	CB	LEU	1558	27.954	4.410	-23.541	1.00	17.19
ATOM	10416	CG	LEU	1558	29.465	4.181	-25.284	1.00	17.43
ATOM	10417	CD1	LEU	1558	29.864	3.816	-26.048	1.00	17.48
ATOM	10418	CD2	LEU	1558	30.223	5.315	-24.908	1.00	18.11
ATOM	10419	C	LEU	1558	29.747	3.316	-26.431	1.00	15.47
ATOM	10420	O	LEU	1558	25.676	2.770	-22.906	1.00	14.85
ATOM	10421	N	PRO	1559	24.736	4.134	-20.602	1.00	16.50
ATOM	10422	CA	PRO	1559	24.743	5.128	-20.385	1.00	15.31
ATOM	10423	CB	PRO	1559	23.507	4.227	-19.280	1.00	15.63

ATOM	10436	N	VAL	1560	11.874	-3.198	11.874	1.00	14.73
ATOM	10437	C	VAL	1560	11.874	-4.448	11.874	1.00	14.73
ATOM	10438	C	VAL	1560	11.874	-5.698	11.874	1.00	14.73
ATOM	10439	C	VAL	1560	11.874	-6.948	11.874	1.00	14.73
ATOM	10440	C	VAL	1560	11.874	-8.198	11.874	1.00	14.73
ATOM	10441	C	VAL	1560	11.874	-9.448	11.874	1.00	14.73
ATOM	10442	N	VAL	1562	11.874	-3.198	11.874	1.00	14.73
ATOM	10443	CA	VAL	1562	11.874	-4.448	11.874	1.00	14.73
ATOM	10444	CB	VAL	1562	11.874	-5.698	11.874	1.00	14.73
ATOM	10445	CG1	VAL	1562	11.874	-6.948	11.874	1.00	14.73
ATOM	10446	CG2	VAL	1562	11.874	-8.198	11.874	1.00	14.73
ATOM	10447	C	VAL	1562	11.874	-9.448	11.874	1.00	14.73
ATOM	10448	O	VAL	1562	11.874	-10.698	11.874	1.00	14.73
ATOM	10449	N	ALA	1563	11.874	-3.198	11.874	1.00	14.73
ATOM	10450	CA	ALA	1563	11.874	-4.448	11.874	1.00	14.73
ATOM	10451	CB	ALA	1563	11.874	-5.698	11.874	1.00	14.73
ATOM	10452	C	ALA	1563	11.874	-6.948	11.874	1.00	14.73
ATOM	10453	O	ALA	1563	11.874	-8.198	11.874	1.00	14.73
ATOM	10454	N	ASP	1564	11.874	-3.198	11.874	1.00	14.73
ATOM	10455	CA	ASP	1564	11.874	-4.448	11.874	1.00	14.73
ATOM	10456	CB	ASP	1564	11.874	-5.698	11.874	1.00	14.73
ATOM	10457	CG	ASP	1564	11.874	-6.948	11.874	1.00	14.73
ATOM	10458	OD1	ASP	1564	11.874	-8.198	11.874	1.00	14.73
ATOM	10459	OD2	ASP	1564	11.874	-9.448	11.874	1.00	14.73
ATOM	10460	C	ASP	1564	11.874	-10.698	11.874	1.00	14.73
ATOM	10461	O	ASP	1564	11.874	-11.948	11.874	1.00	14.73
ATOM	10462	N	ILE	1565	11.874	-3.198	11.874	1.00	14.73
ATOM	10463	CA	ILE	1565	11.874	-4.448	11.874	1.00	14.73
ATOM	10464	CB	ILE	1565	11.874	-5.698	11.874	1.00	14.73
ATOM	10465	CG2	ILE	1565	11.874	-6.948	11.874	1.00	14.73
ATOM	10466	CG1	ILE	1565	11.874	-8.198	11.874	1.00	14.73
ATOM	10467	CD1	ILE	1565	11.874	-9.448	11.874	1.00	14.73
ATOM	10468	C	ILE	1565	11.874	-10.698	11.874	1.00	14.73
ATOM	10469	O	ILE	1565	11.874	-11.948	11.874	1.00	14.73
ATOM	10470	N	ALA	1566	11.874	-3.198	11.874	1.00	14.73
ATOM	10471	CA	ALA	1566	11.874	-4.448	11.874	1.00	14.73
ATOM	10472	CB	ALA	1566	11.874	-5.698	11.874	1.00	14.73
ATOM	10473	C	ALA	1566	11.874	-6.948	11.874	1.00	14.73
ATOM	10474	O	ALA	1566	11.874	-8.198	11.874	1.00	14.73
ATOM	10475	N	TYR	1567	11.874	-3.198	11.874	1.00	14.73
ATOM	10476	CA	TYR	1567	11.874	-4.448	11.874	1.00	14.73
ATOM	10477	CB	TYR	1567	11.874	-5.698	11.874	1.00	14.73
ATOM	10478	CG	TYR	1567	11.874	-6.948	11.874	1.00	14.73
ATOM	10479	CD1	TYR	1567	11.874	-8.198	11.874	1.00	14.73
ATOM	10480	CE1	TYR	1567	11.874	-9.448	11.874	1.00	14.73
ATOM	10481	CD2	TYR	1567	11.874	-10.698	11.874	1.00	14.73
ATOM	10482	CE2	TYR	1567	11.874	-11.948	11.874	1.00	14.73
ATOM	10483	CZ	TYR	1567	11.874	-13.198	11.874	1.00	14.73
ATOM	10484	OH	TYR	1567	11.874	-14.448	11.874	1.00	14.73
ATOM	10485	C	TYR	1567	11.874	-15.698	11.874	1.00	14.73
ATOM	10486	O	TYR	1567	11.874	-16.948	11.874	1.00	14.73
ATOM	10487	N	HIS	1568	11.874	-3.198	11.874	1.00	14.73
ATOM	10488	CA	HIS	1568	11.874	-4.448	11.874	1.00	14.73
ATOM	10489	CB	HIS	1568	11.874	-5.698	11.874	1.00	14.73
ATOM	10490	CG	HIS	1568	11.874	-6.948	11.874	1.00	14.73
ATOM	10491	CD2	HIS	1568	11.874	-8.198	11.874	1.00	14.73
ATOM	10492	ND1	HIS	1568	11.874	-9.448	11.874	1.00	14.73
ATOM	10493	CE1	HIS	1568	11.874	-10.698	11.874	1.00	14.73
ATOM	10494	NE2	HIS	1568	11.874	-11.948	11.874	1.00	14.73
ATOM	10495	C	HIS	1568	11.874	-13.198	11.874	1.00	14.73
ATOM	10496	O	HIS	1568	11.874	-14.448	11.874	1.00	14.73
ATOM	10497	N	THR	1569	11.874	-3.198	11.874	1.00	14.73
ATOM	10498	CA	THR	1569	11.874	-4.448	11.874	1.00	14.73
ATOM	10499	CB	THR	1569	11.874	-5.698	11.874	1.00	14.73
ATOM	10500	CG1	THR	1569	11.874	-6.948	11.874	1.00	14.73

ATOM	10501	CA	THR	1565	14.168	-12.292	5.333	1.00	11.71
ATOM	10502	C	THR	1566	14.972	-11.326	4.436	1.00	11.47
ATOM	10503	C	THR	1569	14.657	-12.170	3.846	1.00	11.77
ATOM	10504	N	ALA	1570	13.915	-10.715	5.353	1.00	11.71
ATOM	10505	CA	ALA	1576	13.666	-11.671	5.471	1.00	11.41
ATOM	10506	C	ALA	1576	11.961	-11.293	6.883	1.00	11.36
ATOM	10507	C	ALA	1579	11.619	-11.544	4.111	1.00	11.73
ATOM	10508	C	ALA	1579	11.152	-12.596	3.284	1.00	11.55
ATOM	10509	N	ALA	1571	11.894	-10.348	3.633	1.00	11.15
ATOM	10510	CA	ALA	1571	11.028	-10.110	2.422	1.00	10.69
ATOM	10511	C	ALA	1571	11.914	-8.819	2.083	1.00	10.51
ATOM	10512	C	ALA	1571	11.815	-10.967	1.763	1.00	11.69
ATOM	10513	C	ALA	1571	10.931	-11.499	0.477	1.00	11.47
ATOM	10514	N	VAL	1572	12.339	-10.323	1.134	1.00	11.65
ATOM	10515	CA	VAL	1572	13.553	-11.587	0.984	1.00	11.69
ATOM	10516	C	VAL	1572	15.037	-11.373	0.604	1.00	11.81
ATOM	10517	CD1	VAL	1572	15.291	-12.485	-0.954	1.00	14.45
ATOM	10518	CD2	VAL	1572	15.337	-10.950	-0.454	1.00	14.01
ATOM	10519	C	VAL	1572	13.231	-12.176	0.239	1.00	13.25
ATOM	10520	C	VAL	1572	12.955	-13.888	-0.727	1.00	13.23
ATOM	10521	N	ARG	1573	13.355	-13.459	1.437	1.00	11.28
ATOM	10522	CA	ARG	1573	12.127	-15.066	1.723	1.00	11.95
ATOM	10523	CB	ARG	1573	12.417	-15.409	3.203	1.00	11.46
ATOM	10524	CG	ARG	1573	13.134	-16.875	3.564	1.00	14.12
ATOM	10525	CD	ARG	1573	13.891	-17.820	2.634	1.00	11.99
ATOM	10526	NE	ARG	1573	15.239	-15.944	3.006	1.00	15.31
ATOM	10527	CZ	ARG	1573	16.238	-18.497	2.148	1.00	17.73
ATOM	10528	NH1	ARG	1573	12.931	-15.981	1.049	1.00	16.85
ATOM	10529	NH2	ARG	1573	17.486	-17.589	2.696	1.00	13.43
ATOM	10530	C	ARG	1573	11.791	-15.460	1.353	1.00	12.91
ATOM	10531	C	ARG	1573	11.487	-14.569	0.881	1.00	14.66
ATOM	10532	N	ARG	1574	10.740	-14.561	1.557	1.00	13.46
ATOM	10533	CA	ARG	1574	8.336	-14.883	1.214	1.00	13.92
ATOM	10534	CB	ARG	1574	8.331	-13.802	1.707	1.00	14.87
ATOM	10535	CG	ARG	1574	8.458	-13.821	3.217	1.00	17.41
ATOM	10536	CD	ARG	1574	7.137	-13.765	3.653	1.00	15.73
ATOM	10537	NE	ARG	1574	7.341	-12.554	5.056	1.00	19.59
ATOM	10538	CZ	ARG	1574	7.331	-11.503	5.637	1.00	20.15
ATOM	10539	NH1	ARG	1574	7.437	-13.577	4.938	1.00	15.97
ATOM	10540	NH2	ARG	1574	7.331	-11.421	6.057	1.00	23.22
ATOM	10541	C	ARG	1574	8.210	-13.013	-0.194	1.00	13.49
ATOM	10542	C	ARG	1574	8.337	-15.777	-0.584	1.00	14.10
ATOM	10543	N	GLY	1575	12.017	-14.053	-1.614	1.00	11.47
ATOM	10544	CA	GLY	1575	9.944	-13.197	-2.473	1.00	13.24
ATOM	10545	C	GLY	1575	10.639	-13.467	-3.086	1.00	16.10
ATOM	10546	C	GLY	1575	10.337	-13.961	-4.151	1.00	13.71
ATOM	10547	N	ALA	1576	11.721	-13.894	-2.441	1.00	15.51
ATOM	10548	CA	ALA	1576	12.537	-14.980	-2.951	1.00	16.76
ATOM	10549	C	ALA	1576	12.353	-14.431	-3.554	1.00	18.02
ATOM	10550	C	ALA	1576	12.337	-13.973	-1.803	1.00	16.86
ATOM	10551	C	ALA	1576	14.967	-13.923	-1.319	1.00	13.39
ATOM	10552	N	LEU	1577	11.337	-13.753	-1.363	1.00	17.36
ATOM	10553	CD	LEU	1577	10.834	-13.934	-1.981	1.00	15.74
ATOM	10554	CA	LEU	1577	12.136	-13.694	-0.767	1.00	18.18
ATOM	10555	C	LEU	1577	10.273	-2.333	-0.067	1.00	19.74
ATOM	10556	CG	LEU	1577	10.218	-23.391	-1.461	1.00	21.51
ATOM	10557	C	LEU	1577	10.237	-23.765	-0.431	1.00	21.10
ATOM	10558	C	LEU	1577	13.693	-21.381	-0.563	1.00	21.21
ATOM	10559	N	ASN	1578	13.371	-23.983	-1.647	1.00	19.12
ATOM	10560	CA	ASN	1578	13.731	-23.106	-1.837	1.00	19.33
ATOM	10561	CB	ASN	1578	14.237	-24.019	-2.698	1.00	23.93
ATOM	10562	CG	ASN	1578	12.931	-23.757	-2.537	1.00	26.53
ATOM	10563	CD1	ASN	1578	12.943	-24.394	-1.344	1.00	30.39
ATOM	10564	CD2	ASN	1578	11.942	-23.707	-3.266	1.00	30.04
ATOM	10565	C	ASN	1578	16.057	-21.461	-2.747	1.00	18.41
ATOM	10566	C	ASN	1578	16.373	-22.231	-2.711	1.00	17.85
ATOM	10567	N	CYS	1579	16.210	-23.148	-2.357	1.00	16.75
ATOM	10568	CA	CYS	1579	15.486	-19.566	-2.791	1.00	16.63
ATOM	10569	CB	CYS	1579	17.268	-18.113	-3.258	1.00	18.56
ATOM	10570	SG	CYS	1579	15.355	-16.870	-1.911	1.00	20.66
ATOM	10571	C	CYS	1579	17.559	-19.566	-1.708	1.00	16.46
ATOM	10572	C	CYS	1579	18.254	-19.737	-0.523	1.00	16.94
ATOM	10573	N	LEU	1580	19.797	-19.406	-2.127	1.00	16.30
ATOM	10574	CA	LEU	1580	20.901	-19.306	-1.183	1.00	16.34
ATOM	10575	CB	LEU	1580	22.325	-19.741	-1.820	1.00	16.18
ATOM	10576	CG	LEU	1580	23.496	-19.451	-1.005	1.00	16.78
ATOM	10577	CD1	LEU	1580	23.415	-20.123	0.360	1.00	18.05

ATM	10578	CA	LEU	15-1	24.000	-10.881	1.777	1.00	14.764
ATM	10579	C	LEU	15-1	20.894	-17.063	-6.914	1.00	16.05
ATM	10580	C	LEU	15-1	21.150	-16.998	-1.813	1.00	13.81
ATM	10581	N	LEU	15-1	20.500	-17.431	0.431	1.00	16.04
ATM	10582	CA	LEU	15-1	20.400	-16.639	0.764	1.00	15.99
ATM	10583	CB	LEU	15-1	18.100	-15.811	1.473	1.00	16.23
ATM	10584	CB	LEU	15-1	18.500	-14.411	1.600	1.00	17.01
ATM	10585	CD1	LEU	15-1	17.100	-14.550	2.720	1.00	16.40
ATM	10586	CD2	LEU	15-1	19.300	-13.420	2.444	1.00	19.60
ATM	10587	C	LEU	15-1	21.800	-15.100	1.569	1.00	16.66
ATM	10588	C	LEU	15-1	21.700	-16.060	2.664	1.00	15.52
ATM	10589	N	LEU	15-2	22.400	-14.609	1.931	1.00	15.45
ATM	10590	CA	LEU	15-2	23.500	-14.100	1.741	1.00	16.37
ATM	10591	CB	LEU	15-2	24.700	-13.309	2.850	1.00	17.40
ATM	10592	CG	LEU	15-2	25.800	-14.804	0.746	1.00	18.08
ATM	10593	CD1	LEU	15-2	25.200	-16.100	0.171	1.00	19.64
ATM	10594	CD2	LEU	15-2	26.900	-14.340	-0.120	1.00	20.41
ATM	10595	C	LEU	15-2	27.000	-12.700	2.290	1.00	16.71
ATM	10596	C	LEU	15-2	22.700	-12.000	1.590	1.00	18.36
ATM	10597	N	ALA	15-3	27.300	-12.440	2.521	1.00	15.11
ATM	10598	CA	ALA	15-3	27.500	-11.100	4.111	1.00	14.69
ATM	10599	CB	ALA	15-3	21.900	-11.410	5.219	1.00	14.69
ATOM	10600	C	ALA	15-3	24.000	-10.400	4.667	1.00	14.14
ATOM	10601	C	ALA	15-3	25.000	-11.000	5.344	1.00	13.71
ATOM	10602	N	ASP	15-4	24.500	-9.000	4.362	1.00	13.31
ATOM	10603	CA	ASP	15-4	25.000	-8.400	4.555	1.00	14.49
ATOM	10604	CB	ASP	15-4	25.600	-7.100	4.091	1.00	15.94
ATOM	10605	CG	ASP	15-4	26.400	-7.140	2.310	1.00	17.51
ATOM	10606	CD1	ASP	15-4	25.100	-8.100	3.651	1.00	20.08
ATOM	10607	CD2	ASP	15-4	26.000	-6.300	2.006	1.00	18.71
ATOM	10608	C	ASP	15-4	25.000	-8.000	6.304	1.00	13.45
ATOM	10609	C	ASP	15-4	24.200	-8.700	6.709	1.00	12.56
ATOM	10610	N	LEU	15-5	26.400	-8.640	7.006	1.00	12.65
ATOM	10611	CA	LEU	15-5	26.500	-7.500	8.410	1.00	13.11
ATOM	10612	CB	LEU	15-5	27.500	-8.200	8.306	1.00	13.48
ATOM	10613	CG	LEU	15-5	26.000	-8.840	8.777	1.00	13.68
ATOM	10614	CD1	LEU	15-5	27.000	-12.100	10.900	1.00	12.00
ATOM	10615	CD2	LEU	15-5	25.000	-8.600	10.200	1.00	14.00
ATOM	10616	C	LEU	15-5	26.000	-8.100	8.080	1.00	15.53
ATOM	10617	C	LEU	15-5	25.000	-8.900	8.381	1.00	15.47
ATOM	10618	N	PRO	15-6	26.000	-8.000	8.431	1.00	14.11
ATOM	10619	CD	PRO	15-6	24.000	-8.100	8.000	1.00	16.51
ATOM	10620	CA	PRO	15-6	26.400	-8.600	8.160	1.00	14.80
ATOM	10621	CB	PRO	15-6	25.000	-8.900	8.385	1.00	14.41
ATOM	10622	CG	PRO	15-6	24.400	-8.900	8.480	1.00	15.59
ATOM	10623	C	PRO	15-6	27.000	-8.000	8.000	1.00	15.36
ATOM	10624	C	PRO	15-6	28.100	-8.700	8.304	1.00	13.41
ATOM	10625	N	PHE	15-7	27.000	-10.000	8.590	1.00	13.29
ATOM	10626	CA	PHE	15-7	26.800	-10.000	8.300	1.00	15.40
ATOM	10627	CB	PHE	15-7	28.400	-9.100	7.900	1.00	15.20
ATOM	10628	CG	PHE	15-7	29.400	-8.100	8.100	1.00	16.40
ATOM	10629	CD1	PHE	15-7	29.800	-8.400	8.770	1.00	15.90
ATOM	10630	CD2	PHE	15-7	28.600	-8.700	10.610	1.00	16.80
ATOM	10631	DEL	PHE	15-7	21.600	-8.100	12.300	1.00	19.00
ATOM	10632	DEL	PHE	15-7	29.600	-8.700	11.370	1.00	18.80
ATOM	10633	CZ	PHE	15-7	21.000	-8.100	11.000	1.00	16.40
ATOM	10634	C	PHE	15-7	23.400	-8.100	10.800	1.00	14.50
ATOM	10635	C	PHE	15-7	22.500	-8.000	11.500	1.00	17.70
ATOM	10636	N	MET	15-8	29.640	-10.000	11.400	1.00	16.40
ATOM	10637	CA	MET	15-8	30.100	-10.000	10.800	1.00	17.60
ATOM	10638	CB	MET	15-8	29.900	-8.400	10.610	1.00	15.40
ATOM	10639	CG	MET	15-8	30.700	-8.400	14.800	1.00	17.28
ATOM	10640	SD	MET	15-8	32.500	-8.400	14.600	1.00	16.90
ATOM	10641	CE	MET	15-8	32.900	-8.400	14.350	1.00	16.80
ATOM	10642	C	MET	15-8	29.130	-2.820	15.400	1.00	14.80
ATOM	10643	C	MET	15-8	28.630	-2.740	14.600	1.00	16.70
ATOM	10644	N	ALA	15-9	28.730	-3.800	12.630	1.00	15.80
ATOM	10645	CA	ALA	15-9	27.900	-4.800	13.130	1.00	14.00
ATOM	10646	CB	ALA	15-9	26.870	-5.300	12.120	1.00	14.60
ATOM	10647	C	ALA	15-9	28.700	-6.000	13.610	1.00	14.90
ATOM	10648	C	ALA	15-9	28.140	-7.000	14.110	1.00	17.70
ATOM	10649	N	TYR	15-10	30.000	-6.000	13.420	1.00	14.00
ATOM	10650	CA	TYR	15-10	30.910	-7.130	13.775	1.00	15.90
ATOM	10651	CB	TYR	15-10	31.260	-8.010	12.540	1.00	16.40
ATOM	10652	CG	TYR	15-10	31.512	-7.250	11.270	1.00	15.30
ATOM	10653	CD1	TYR	15-10	32.816	-7.232	10.783	1.00	13.60
ATOM	10654	CE1	TYR	15-10	33.127	-6.558	9.596	1.00	15.26

ATOM	10655	CH	TYR	1590	60.304	-5.1771	28.559	1.00	14.41
ATOM	10656	CH	TYR	1590	60.418	-5.1895	28.378	1.00	14.96
ATOM	10657	CH	TYR	1590	60.112	-5.1895	28.901	1.00	14.53
ATOM	10658	CH	TYR	1590	60.389	-5.1447	28.718	1.00	14.49
ATOM	10659	C	TYR	1590	60.217	-6.1601	14.334	1.00	16.80
ATOM	10660	C	TYR	1590	60.308	-6.1677	13.990	1.00	17.15
ATOM	10661	H	ALA	1591	60.109	-5.1826	15.735	1.00	16.58
ATOM	10662	HA	ALA	1591	60.057	-4.1971	15.865	1.00	18.00
ATOM	10663	HB	ALA	1591	60.799	-1.1734	16.617	1.00	17.18
ATOM	10664	C	ALA	1591	60.012	-5.1909	16.198	1.00	17.20
ATOM	10665	C	ALA	1591	60.217	-5.1796	17.608	1.00	16.80
ATOM	10666	H	THR	1592	60.289	-6.1803	17.168	1.00	17.53
ATOM	10667	HA	THR	1592	60.871	-1.1361	18.153	1.00	17.10
ATOM	10668	HB	THR	1592	60.587	-7.1576	19.578	1.00	17.58
ATOM	10669	OG1	THR	1592	60.177	-7.1681	19.999	1.00	18.10
ATOM	10670	OG2	THR	1592	60.158	-7.1169	20.117	1.00	18.10
ATOM	10671	C	THR	1592	60.168	-8.1184	17.900	1.00	19.10
ATOM	10672	C	THR	1592	60.113	-9.1201	17.519	1.00	19.10
ATOM	10673	N	PRO	1593	60.965	-10.1316	18.717	1.00	16.10
ATOM	10674	CD	PRO	1593	60.154	-10.1467	18.455	1.00	16.88
ATOM	10675	CA	PRO	1593	60.269	-11.1607	17.903	1.00	16.80
ATOM	10676	CB	PRO	1593	60.378	-12.1599	18.453	1.00	17.73
ATOM	10677	CG	PRO	1593	60.587	-11.1877	18.723	1.00	16.98
ATOM	10678	C	PRO	1593	60.874	-11.1769	18.513	1.00	16.89
ATOM	10679	C	PRO	1593	60.933	-12.1790	17.858	1.00	15.96
ATOM	10680	N	GLU	1594	60.746	-11.1415	18.819	1.00	17.16
ATOM	10681	CA	GLU	1594	60.467	-11.1548	20.107	1.00	17.81
ATOM	10682	CB	GLU	1594	60.666	-11.1096	21.986	1.00	21.81
ATOM	10683	CG	GLU	1594	60.592	-11.1407	21.830	1.00	29.07
ATOM	10684	CD	GLU	1594	60.687	-11.1483	24.968	1.00	34.97
ATOM	10685	OE1	GLU	1594	60.687	-10.1336	24.649	1.00	37.17
ATOM	10686	OE2	GLU	1594	60.479	-12.1601	25.714	1.00	37.45
ATOM	10687	C	GLU	1594	60.369	-10.1755	19.817	1.00	16.20
ATOM	10688	O	GLU	1594	60.238	-11.1116	19.721	1.00	14.75
ATOM	10689	H	GLN	1595	60.708	-9.1368	18.816	1.00	16.15
ATOM	10690	CA	GLN	1595	60.277	-8.1345	18.635	1.00	16.81
ATOM	10691	CB	GLN	1595	60.709	-9.1319	18.419	1.00	19.82
ATOM	10692	CG	GLN	1595	60.547	-8.1391	18.814	1.00	29.48
ATOM	10693	CD	GLN	1595	60.618	-8.1117	19.638	1.00	28.24
ATOM	10694	OE1	GLN	1595	60.618	-7.1311	18.973	1.00	30.74
ATOM	10695	NE2	GLN	1595	60.719	-4.1625	20.113	1.00	31.60
ATOM	10696	C	GLN	1595	60.497	-9.1344	17.152	1.00	13.90
ATOM	10697	C	GLN	1595	60.161	-9.1399	16.316	1.00	12.90
ATOM	10698	N	ALA	1596	60.419	-8.1318	16.636	1.00	12.16
ATOM	10699	CA	ALA	1596	60.184	-10.1337	16.939	1.00	12.33
ATOM	10700	CB	ALA	1596	60.493	-10.1337	17.159	1.00	11.02
ATOM	10701	C	ALA	1596	60.711	-11.1361	16.493	1.00	12.94
ATOM	10702	C	ALA	1596	60.846	-11.1337	17.881	1.00	21.62
ATOM	10703	N	PRO	1597	60.149	-12.1317	16.166	1.00	13.20
ATOM	10704	CA	PRO	1597	60.469	-13.1339	16.787	1.00	12.23
ATOM	10705	CB	PRO	1597	60.877	-14.1337	13.977	1.00	11.34
ATOM	10706	CG	PRO	1597	60.163	-14.1337	13.185	1.00	10.72
ATOM	10707	CD1	PRO	1597	60.698	-15.1337	17.043	1.00	14.75
ATOM	10708	CD2	PRO	1597	60.691	-14.1337	16.136	1.00	13.52
ATOM	10709	OE1	PRO	1597	60.163	-15.1337	17.157	1.00	15.56
ATOM	10710	OE2	PRO	1597	60.264	-15.1337	16.573	1.00	14.42
ATOM	10711	CE	PRO	1597	60.163	-15.1337	16.133	1.00	13.68
ATOM	10712	C	PRO	1597	60.305	-13.1337	16.132	1.00	12.63
ATOM	10713	C	PRO	1597	60.114	-13.1337	16.346	1.00	12.34
ATOM	10714	N	GLU	1598	60.712	-12.1337	17.867	1.00	12.52
ATOM	10715	CA	GLU	1598	60.134	-11.1337	17.152	1.00	13.41
ATOM	10716	CB	GLU	1598	60.156	-10.1311	18.555	1.00	16.36
ATOM	10717	CG	GLU	1598	60.043	-10.1301	19.513	1.00	23.47
ATOM	10718	CD	GLU	1598	60.213	-10.1309	20.143	1.00	28.97
ATOM	10719	OE1	GLU	1598	60.134	-12.1337	20.109	1.00	31.03
ATOM	10720	OE2	GLU	1598	60.414	-10.1337	20.053	1.00	32.01
ATOM	10721	C	GLU	1598	60.733	-11.1117	16.635	1.00	12.34
ATOM	10722	C	GLU	1598	60.634	-11.1425	16.321	1.00	11.28
ATOM	10723	N	ASN	1599	60.513	-10.1316	15.852	1.00	12.02
ATOM	10724	CA	ASN	1599	60.353	-9.1758	14.649	1.00	11.59
ATOM	10725	CB	ASN	1599	60.745	-8.1518	14.228	1.00	12.97
ATOM	10726	CG	ASN	1599	60.671	-7.1421	15.295	1.00	13.56
ATOM	10727	OD1	ASN	1599	60.617	-7.1218	15.998	1.00	13.34
ATOM	10728	ND2	ASN	1599	60.774	-6.1712	15.519	1.00	13.33
ATOM	10729	C	ASN	1599	60.865	-10.1771	13.597	1.00	11.88
ATOM	10730	C	ASN	1599	60.961	-10.1696	12.677	1.00	11.95
ATOM	10731	N	ALA	1600	60.790	-11.1724	13.471	1.00	9.53

ATOM	10737	CA	ALA	1601	14.134	-11.784	11.440	1.00	11.91
ATOM	10738	CB	ALA	1601	15.094	-13.610	13.463	1.00	11.15
ATOM	10739	C	ALA	1601	13.901	-12.615	12.743	1.00	11.76
ATOM	10740	H	ALA	1601	13.787	-11.960	11.838	1.00	12.58
ATOM	10741	N	ALA	1601	13.083	-11.902	14.013	1.00	11.35
ATOM	10742	OA	ALA	1601	13.147	-13.746	14.391	1.00	11.07
ATOM	10743	CB	ALA	1601	13.163	-13.090	15.089	1.00	12.88
ATOM	10744	H	ALA	1601	20.833	-14.011	14.018	1.00	11.65
ATOM	10745	H	ALA	1601	19.861	-14.710	13.604	1.00	12.48
ATOM	10746	N	THR	1602	20.781	-15.735	14.193	1.00	10.09
ATOM	10747	CA	THR	1602	19.561	-11.940	11.781	1.00	10.55
ATOM	10748	CB	THR	1602	18.711	-10.166	13.114	1.00	10.34
ATOM	10749	CG1	THR	1602	18.875	-10.342	15.679	1.00	12.17
ATOM	10750	CG2	THR	1602	18.491	-9.703	15.773	1.00	11.56
ATOM	10751	C	THR	1602	16.211	-12.089	12.402	1.00	11.71
ATOM	10752	O	THR	1602	18.060	-12.356	11.951	1.00	10.21
ATOM	10753	N	VAL	1603	23.193	-11.384	11.578	1.00	8.99
ATOM	10754	CA	VAL	1603	18.897	-11.956	10.110	1.00	10.74
ATOM	10755	CB	VAL	1603	20.997	-11.276	9.180	1.00	12.65
ATOM	10756	CG1	VAL	1603	20.510	-11.129	7.558	1.00	19.73
ATOM	10757	CG2	VAL	1603	21.304	-9.885	9.814	1.00	13.29
ATOM	10758	C	VAL	1603	19.677	-12.401	8.655	1.00	10.83
ATOM	10759	O	VAL	1603	18.931	-12.651	8.751	1.00	11.56
ATOM	10760	N	MET	1604	20.322	-14.354	10.317	1.00	10.51
ATOM	10761	CA	MET	1604	20.113	-11.763	10.024	1.00	11.02
ATOM	10762	CB	MET	1604	21.082	-16.692	10.806	1.00	15.41
ATOM	10763	CG	MET	1604	22.562	-16.583	10.411	1.00	18.50
ATOM	10764	SD	MET	1604	22.953	-17.034	8.795	1.00	27.30
ATOM	10765	CE	MET	1604	22.871	-18.864	8.916	1.00	21.09
ATOM	10766	C	MET	1604	18.677	-16.163	10.382	1.00	10.81
ATOM	10767	O	MET	1604	17.984	-16.794	9.584	1.00	13.07
ATOM	10768	N	ARG	1605	18.222	-15.811	11.154	1.00	11.01
ATOM	10769	CA	ARG	1605	16.861	-16.113	11.963	1.00	12.52
ATOM	10770	CB	ARG	1605	16.582	-15.724	13.443	1.00	13.71
ATOM	10771	CG	ARG	1605	17.431	-13.443	14.495	1.00	15.88
ATOM	10772	CD	ARG	1605	16.793	-16.355	15.853	1.00	14.01
ATOM	10773	CE	ARG	1605	17.771	-16.780	16.919	1.00	16.79
ATOM	10774	NH1	ARG	1605	18.649	-15.853	17.433	1.00	18.25
ATOM	10775	NH2	ARG	1605	18.673	-14.656	17.025	1.00	18.55
ATOM	10776	C	ARG	1605	19.521	-16.114	18.157	1.00	18.61
ATOM	10777	O	ARG	1605	15.814	-15.511	11.111	1.00	12.31
ATOM	10778	CG	ARG	1605	14.724	-16.069	10.659	1.00	12.21
ATOM	10779	N	ALA	1606	16.141	-14.356	13.181	1.00	11.34
ATOM	10780	CA	ALA	1606	15.223	-13.514	9.875	1.00	12.22
ATOM	10781	CB	ALA	1606	15.632	-12.232	9.159	1.00	11.74
ATOM	10782	C	ALA	1606	15.136	-11.574	8.199	1.00	13.18
ATOM	10783	H	ALA	1606	14.274	-14.611	7.991	1.00	14.17
ATOM	10784	N	LYS	1607	16.023	-15.251	7.619	1.00	12.29
ATOM	10785	CA	LYS	1607	15.960	-16.019	6.683	1.00	11.48
ATOM	10786	C	LYS	1607	17.268	-16.273	6.907	1.00	11.33
ATOM	10787	O	LYS	1607	17.316	-17.063	4.969	1.00	15.36
ATOM	10788	N	ALA	1608	18.368	-13.612	8.116	1.00	11.16
ATOM	10789	CA	ALA	1608	19.668	-15.277	6.851	1.00	12.71
ATOM	10790	CB	ALA	1608	20.621	-14.619	6.146	1.00	13.69
ATOM	10791	H	ALA	1608	20.294	-17.151	6.159	1.00	13.36
ATOM	10792	C	ALA	1608	20.012	-17.299	6.179	1.00	11.53
ATOM	10793	N	ASN	1609	21.115	-17.612	4.661	1.00	15.36
ATOM	10794	CA	ASN	1609	21.814	-18.865	5.007	1.00	13.10
ATOM	10795	CB	ASN	1609	21.716	-19.774	3.107	1.00	14.21
ATOM	10796	CG	ASN	1609	20.321	-20.162	3.407	1.00	15.93
ATOM	10797	GD1	ASN	1609	19.606	-20.775	4.137	1.00	18.98
ATOM	10798	ND2	ASN	1609	19.910	-19.610	1.359	1.00	13.95
ATOM	10799	C	ASN	1609	23.293	-18.648	5.314	1.00	14.73
ATOM	10800	O	ASN	1609	24.011	-19.543	5.734	1.00	15.75
ATOM	10801	N	MET	1610	23.712	-17.435	5.919	1.00	13.00
ATOM	10802	CA	MET	1610	25.135	-17.083	5.177	1.00	13.92
ATOM	10803	CB	MET	1610	25.864	-17.514	3.935	1.00	14.99
ATOM	10804	CG	MET	1610	27.293	-17.017	3.739	1.00	13.31
ATOM	10805	SD	MET	1610	27.934	-17.518	2.175	1.00	19.54
ATOM	10806	CE	MET	1610	28.973	-18.934	2.662	1.00	21.61
ATOM	10807	C	MET	1610	25.270	-15.536	5.121	1.00	13.22
ATOM	10808	O	MET	1610	24.400	-14.808	5.323	1.00	12.57
ATOM	10809	N	VAL	1611	26.356	-15.155	6.253	1.00	13.16
ATOM	10810	CA	VAL	1611	26.603	-13.752	6.336	1.00	14.59
ATOM	10811	CB	VAL	1611	26.750	-13.590	7.859	1.00	18.07
ATOM	10812	CG1	VAL	1611	27.320	-11.257	6.152	1.00	23.20
ATOM	10813	CG2	VAL	1611	25.389	-13.741	6.555	1.00	17.45

ATOM	RES	NAME	TYPE	CHARGE	COORD	YCOORD	ZCOORD	OC	OC2
ATM	10817	F	DAF	1612	28.441	-10.769	5.239	1.00	14.73
ATM	10818	F	DAF	1612	28.441	-10.769	5.239	1.00	14.73
ATM	10819	N	DAF	1612	28.441	-10.769	5.239	1.00	14.73
ATM	10820	F	DYF	1612	28.441	-10.769	5.239	1.00	14.73
ATM	10821	NH	DYF	1612	28.441	-10.769	5.239	1.00	14.73
ATM	10822	O	DYS	1612	28.441	-10.769	5.239	1.00	14.73
ATM	10823	O	DYS	1612	28.441	-10.769	5.239	1.00	14.73
ATM	10824	N	ILR	1613	33.363	-9.453	4.865	1.00	18.34
ATM	10825	CA	ILE	1613	33.363	-9.453	4.865	1.00	18.34
ATM	10826	CB	GLU	1614	33.948	-9.410	5.658	1.00	22.64
ATM	10827	O	ILE	1613	33.363	-9.453	4.865	1.00	18.34
ATM	10828	N	GLU	1614	33.948	-9.410	5.658	1.00	18.44
ATM	10829	CA	GLU	1614	33.948	-9.410	5.658	1.00	22.64
ATM	10830	CB	GLU	1614	33.948	-9.410	5.658	1.00	21.72
ATM	10831	CG	GLU	1614	33.948	-9.410	5.658	1.00	24.57
ATM	10832	CD	GLU	1614	33.948	-9.410	5.658	1.00	25.01
ATM	10833	OE1	GLU	1614	33.948	-9.410	5.658	1.00	25.95
ATM	10834	OE2	GLU	1614	33.948	-9.410	5.658	1.00	26.44
ATM	10835	C	GLU	1614	33.948	-9.410	5.658	1.00	22.81
ATM	10836	O	GLU	1614	33.948	-9.410	5.658	1.00	23.72
ATM	10837	N	SLY	1615	36.469	-8.092	5.239	1.00	24.76
ATM	10838	CA	SLY	1615	36.469	-8.092	5.239	1.00	26.37
ATM	10839	C	SLY	1615	36.469	-8.092	5.239	1.00	25.48
ATM	10840	O	SLY	1615	36.469	-8.092	5.239	1.00	26.13
ATM	10841	N	SLY	1616	39.916	-8.024	5.239	1.00	26.28
ATM	10842	CA	SLY	1616	39.916	-8.043	5.255	1.00	25.88
ATM	10843	C	SLY	1616	41.795	-8.771	5.191	1.00	26.83
ATM	10844	O	SLY	1616	40.591	-10.213	5.265	1.00	26.50
ATM	10845	N	GLU	1617	40.713	-9.780	5.135	1.00	26.80
ATM	10846	CA	GLU	1617	40.713	-10.427	5.427	1.00	25.83
ATM	10847	CB	GLU	1617	44.851	-9.923	6.564	1.00	28.43
ATM	10848	CG	GLU	1617	43.836	-10.775	5.868	1.00	35.24
ATM	10849	CD	GLU	1617	46.736	-13.074	6.634	1.00	36.00
ATM	10850	OE1	GLU	1617	43.193	-13.083	5.770	1.00	36.00
ATM	10851	OE2	GLU	1617	43.799	-13.083	6.175	1.00	36.01
ATM	10852	C	GLU	1617	43.713	-13.394	6.620	1.00	26.15
ATM	10853	O	GLU	1617	42.517	-11.389	11.139	1.00	26.44
ATM	10854	N	TRF	1618	42.434	-8.969	10.112	1.00	23.34
ATM	10855	CA	TRF	1618	41.815	-8.455	11.818	1.00	23.46
ATM	10856	CB	TRF	1618	41.607	-7.464	11.736	1.00	23.19
ATM	10857	CG	TRF	1618	40.461	-6.766	11.610	1.00	23.05
ATM	10858	CD2	TRF	1618	39.182	-8.510	11.883	1.00	23.08
ATM	10859	OE2	TRF	1618	38.392	-8.939	11.951	1.00	23.15
ATM	10860	CE3	TRF	1618	38.344	-8.723	11.353	1.00	23.12
ATM	10861	CD1	TRF	1618	43.136	-8.348	8.735	1.00	23.11
ATM	10862	NE1	TRF	1618	39.133	-8.345	8.132	1.00	23.15
ATM	10863	CE2	TRF	1618	37.774	-8.357	11.684	1.00	23.13
ATM	10864	CE3	TRF	1618	37.714	-8.345	11.655	1.00	23.11
ATM	10865	CH2	TRF	1618	36.182	-8.371	11.915	1.00	23.17
ATM	10866	C	TRF	1618	40.344	-8.819	11.781	1.00	23.19
ATM	10867	O	TRP	1619	40.176	-9.746	11.654	1.00	23.49
ATM	10868	N	LEU	1619	39.317	-13.344	11.737	1.00	23.43
ATM	10869	CA	LEU	1619	38.658	-11.886	11.493	1.00	23.49
ATM	10870	CB	LEU	1619	37.751	-11.622	8.696	1.00	23.97
ATM	10871	CG	LEU	1619	37.186	-9.338	9.855	1.00	21.43
ATM	10872	CD1	LEU	1619	36.316	-9.117	8.335	1.00	22.34
ATM	10873	CD2	LEU	1619	36.290	-9.339	10.333	1.00	23.75
ATM	10874	C	LEU	1619	38.417	-12.595	11.167	1.00	18.39
ATM	10875	O	LEU	1619	37.371	-13.094	11.338	1.00	18.11
ATM	10876	N	VAL	1620	40.347	-12.399	11.534	1.00	18.75
ATM	10877	CA	VAL	1620	40.284	-14.344	11.174	1.00	18.17
ATM	10878	CB	VAL	1620	41.798	-14.645	11.509	1.00	20.23
ATM	10879	CG1	VAL	1620	42.387	-16.107	11.660	1.00	23.87
ATM	10880	CG2	VAL	1620	42.565	-14.331	10.003	1.00	22.98
ATM	10881	C	VAL	1620	39.553	-14.972	12.749	1.00	19.93
ATM	10882	O	VAL	1620	38.847	-15.965	12.173	1.00	18.34
ATM	10883	N	GLU	1621	39.751	-14.411	13.513	1.00	19.17
ATM	10884	CA	GLU	1621	39.088	-14.946	14.741	1.00	18.85
ATM	10885	CB	GLU	1621	39.479	-14.109	15.963	1.00	18.79

ATOM	10886	CG	GLU	1621	39.215	-14.561	13.256	1.00	21.60
ATOM	10887	CI	GLU	1621	39.265	-13.760	12.471	1.00	25.26
ATOM	10888	CE1	GLU	1621	39.152	-12.515	12.453	1.00	24.17
ATOM	10889	CE2	GLU	1621	39.740	-14.783	12.446	1.00	28.44
ATOM	10890	C	GLU	1621	39.521	-14.962	12.589	1.00	16.87
ATOM	10891	O	GLU	1621	39.911	-15.951	12.909	1.00	16.16
ATOM	10892	N	THR	1622	39.027	-13.855	12.118	1.00	17.73
ATOM	10893	CA	THR	1622	39.582	-13.729	11.938	1.00	15.42
ATOM	10894	CB	THR	1622	39.228	-12.319	12.410	1.00	16.78
ATOM	10895	CG1	THR	1622	39.730	-11.345	12.256	1.00	17.00
ATOM	10896	CG2	THR	1622	39.717	-12.140	12.272	1.00	14.46
ATOM	10897	C	THR	1622	39.048	-14.797	12.565	1.00	15.13
ATOM	10898	O	THR	1622	39.064	-15.464	11.293	1.00	13.77
ATOM	10899	N	VAL	1623	39.656	-14.967	12.832	1.00	13.87
ATOM	10900	CA	VAL	1623	39.263	-15.969	12.862	1.00	14.72
ATOM	10901	CB	VAL	1623	39.162	-15.907	9.569	1.00	14.99
ATOM	10902	CG1	VAL	1623	39.856	-17.017	9.602	1.00	16.16
ATOM	10903	CG2	VAL	1623	39.953	-11.548	8.921	1.00	14.47
ATOM	10904	C	VAL	1623	39.345	-17.582	11.451	1.00	15.17
ATOM	10905	O	VAL	1623	39.424	-18.186	12.308	1.00	13.99
ATOM	10906	N	GLN	1624	39.456	-17.280	12.117	1.00	14.83
ATOM	10907	CA	GLN	1624	39.641	-18.292	12.522	1.00	17.43
ATOM	10908	CB	GLN	1624	39.612	-18.072	12.421	1.00	20.42
ATOM	10909	CG	GLN	1624	39.205	-18.806	11.492	1.00	28.10
ATOM	10910	CD	GLN	1624	39.540	-18.763	12.212	1.00	31.16
ATOM	10911	OE1	GLN	1624	39.789	-18.325	12.238	1.00	33.12
ATOM	10912	NE2	GLN	1624	41.408	-19.809	11.661	1.00	31.88
ATOM	10913	C	GLN	1624	39.544	-19.236	12.751	1.00	15.78
ATOM	10914	O	GLN	1624	39.960	-20.384	12.751	1.00	15.85
ATOM	10915	N	MET	1625	39.260	-18.324	12.632	1.00	16.16
ATOM	10916	CA	MET	1625	39.249	-18.118	12.664	1.00	14.53
ATOM	10917	CB	MET	1625	39.398	-17.466	12.558	1.00	15.61
ATOM	10918	CG	MET	1625	39.637	-17.651	12.623	1.00	16.11
ATOM	10919	SD	MET	1625	39.864	-17.757	12.827	1.00	26.36
ATOM	10920	CE	MET	1625	39.711	-16.785	20.112	1.00	24.48
ATOM	10921	C	MET	1625	39.811	-17.554	12.564	1.00	15.71
ATOM	10922	O	MET	1625	39.979	-18.228	12.571	1.00	15.07
ATOM	10923	N	LEU	1626	39.571	-18.721	12.161	1.00	16.96
ATOM	10924	CA	LEU	1626	39.240	-18.664	12.104	1.00	15.10
ATOM	10925	CB	LEU	1626	39.159	-18.687	12.416	1.00	15.78
ATOM	10926	CG	LEU	1626	39.816	-17.722	11.918	1.00	11.72
ATOM	10927	CD1	LEU	1626	39.980	-14.166	12.729	1.00	15.86
ATOM	10928	CD2	LEU	1626	39.359	-17.188	12.451	1.00	15.70
ATOM	10929	C	LEU	1626	39.947	-18.965	12.902	1.00	16.67
ATOM	10930	O	LEU	1626	39.903	-18.673	12.561	1.00	16.61
ATOM	10931	N	THR	1627	39.867	-18.548	11.002	1.00	18.42
ATOM	10932	CA	THR	1627	39.747	-20.227	11.422	1.00	15.44
ATOM	10933	CB	THR	1627	39.000	-21.121	11.552	1.00	20.87
ATOM	10934	CG1	THR	1627	39.249	-20.261	9.662	1.00	21.27
ATOM	10935	CG2	THR	1627	39.790	-20.324	9.772	1.00	21.46
ATOM	10936	C	THR	1627	39.481	-21.122	11.362	1.00	18.06
ATOM	10937	O	THR	1627	39.579	-21.721	11.316	1.00	20.62
ATOM	10938	N	LEU	1628	39.267	-20.707	12.444	1.00	20.11
ATOM	10939	CA	LEU	1628	39.051	-20.129	12.332	1.00	21.66
ATOM	10940	CB	LEU	1628	39.267	-20.707	12.444	1.00	20.11
ATOM	10941	CG	LEU	1628	39.247	-20.342	12.351	1.00	20.70
ATOM	10942	CD	LEU	1628	39.458	-20.161	12.333	1.00	21.07
ATOM	10943	OE1	LEU	1628	39.680	-20.721	12.444	1.00	21.80
ATOM	10944	OE2	LEU	1628	39.383	-20.663	12.032	1.00	23.14
ATOM	10945	C	LEU	1628	39.737	-22.093	12.152	1.00	21.32
ATOM	10946	O	LEU	1628	39.278	-23.021	12.802	1.00	21.40
ATOM	10947	N	ARG	1629	39.127	-21.806	12.073	1.00	18.90
ATOM	10948	CA	ARG	1629	38.850	-21.555	12.739	1.00	18.91
ATOM	10949	CB	ARG	1629	38.877	-20.193	12.456	1.00	19.15
ATOM	10950	CG	ARG	1629	39.636	-21.343	12.727	1.00	15.93
ATOM	10951	CD	ARG	1629	39.159	-18.483	12.246	1.00	12.79
ATOM	10952	NE	ARG	1629	39.953	-19.947	12.460	1.00	13.17
ATOM	10953	CZ	ARG	1629	39.153	-19.616	12.438	1.00	12.39
ATOM	10954	NH1	ARG	1629	39.719	-20.063	12.382	1.00	14.22
ATOM	10955	NH2	ARG	1629	39.773	-19.774	20.658	1.00	15.37
ATOM	10956	C	ARG	1629	39.659	-21.633	12.768	1.00	19.42
ATOM	10957	O	ARG	1629	39.619	-21.929	15.036	1.00	21.03
ATOM	10958	N	ALA	1630	27.838	-22.373	13.671	1.00	19.16
ATOM	10959	CA	ALA	1630	26.792	-22.591	12.663	1.00	17.12
ATOM	10960	CB	ALA	1630	25.493	-23.014	13.346	1.00	15.89
ATOM	10961	C	ALA	1630	26.503	-21.443	11.693	1.00	16.92
ATOM	10962	O	ALA	1630	25.460	-21.433	11.052	1.00	15.55

ATOM	10963	N	VAL	1631	27.413	-20.494	11.590	1.00	16.60
ATOM	10964	CA	VAL	1631	27.194	-19.779	10.689	1.00	15.84
ATOM	10965	CB	VAL	1631	27.282	-18.019	11.436	1.00	17.04
ATOM	10966	CG1	VAL	1631	26.996	-16.863	10.475	1.00	15.90
ATOM	10967	CG2	VAL	1631	26.280	-17.984	12.590	1.00	18.38
ATOM	10968	O	VAL	1631	28.200	-19.787	9.534	1.00	15.71
ATOM	10969	C	VAL	1631	29.355	-19.046	9.773	1.00	17.57
ATOM	10970	N	PRO	1632	27.560	-19.725	8.418	1.00	16.10
ATOM	10971	CA	PRO	1632	26.568	-20.262	7.901	1.00	14.50
ATOM	10972	CB	PRO	1632	28.710	-19.706	7.000	1.00	15.24
ATOM	10973	CG	PRO	1632	27.961	-20.438	6.083	1.00	15.99
ATOM	10974	CG	PRO	1632	26.952	-20.178	6.793	1.00	25.78
ATOM	10975	O	PRO	1632	29.025	-18.775	6.857	1.00	16.57
ATOM	10976	O	PRO	1632	28.556	-17.280	6.431	1.00	15.91
ATOM	10977	N	VAL	1633	29.769	-18.082	6.478	1.00	14.68
ATOM	10978	CA	VAL	1633	30.702	-18.684	6.171	1.00	14.70
ATOM	10979	CB	VAL	1633	31.868	-16.717	7.157	1.00	16.39
ATOM	10980	CG1	VAL	1633	32.130	-13.775	6.874	1.00	14.35
ATOM	10981	CG2	VAL	1633	31.110	-16.571	8.593	1.00	15.41
ATOM	10982	O	VAL	1633	31.187	-16.467	4.772	1.00	14.92
ATOM	10983	C	VAL	1633	31.852	-17.113	4.134	1.00	14.86
ATOM	10984	N	CYS	1634	30.871	-15.580	4.185	1.00	13.16
ATOM	10985	CA	CYS	1634	31.152	-14.897	2.895	1.00	15.22
ATOM	10986	CB	CYS	1634	30.186	-14.545	1.955	1.00	14.14
ATOM	10987	CG	CYS	1634	30.113	-13.907	0.936	1.00	17.65
ATOM	10988	C	CYS	1634	32.277	-14.704	3.111	1.00	14.44
ATOM	10989	O	CYS	1634	31.929	-13.884	3.887	1.00	15.27
ATOM	10990	N	GLY	1635	33.451	-13.816	2.578	1.00	15.52
ATOM	10991	CA	GLY	1635	34.400	-11.713	2.779	1.00	14.14
ATOM	10992	C	GLY	1635	34.162	-11.615	1.701	1.00	15.47
ATOM	10993	O	GLY	1635	33.552	-11.276	0.806	1.00	16.16
ATOM	10994	N	HIS	1636	34.803	-10.408	1.938	1.00	16.26
ATOM	10995	CA	HIS	1636	34.709	-9.884	1.009	1.00	18.95
ATOM	10996	CB	HIS	1636	33.568	-8.753	1.417	1.00	19.60
ATOM	10997	CG	HIS	1636	33.199	-7.160	0.566	1.00	20.41
ATOM	10998	CD2	HIS	1636	33.112	-6.884	-0.807	1.00	20.13
ATOM	10999	ND1	HIS	1636	31.937	-8.787	0.163	1.00	20.81
ATOM	11000	HE1	HIS	1636	31.838	-7.845	-0.100	1.00	29.55
ATOM	11001	HE2	HIS	1636	29.900	-7.888	-1.110	1.00	20.46
ATOM	11002	I	HIS	1636	31.957	-7.481	1.077	1.00	21.06
ATOM	11003	O	HIS	1636	33.171	-7.560	2.106	1.00	23.03
ATOM	11004	N	LEU	1637	33.788	-6.771	0.730	1.00	23.97
ATOM	11005	CA	LEU	1637	33.922	-6.884	-0.090	1.00	24.89
ATOM	11006	CB	LEU	1637	33.123	-6.785	-0.153	1.00	24.90
ATOM	11007	CG	LEU	1637	33.378	-5.989	1.007	1.00	26.13
ATOM	11008	CD1	LEU	1637	30.603	-1.881	0.177	1.00	24.93
ATOM	11009	CD2	LEU	1637	33.803	-5.783	2.167	1.00	26.07
ATOM	11010	I	LEU	1637	33.926	-6.884	-1.110	1.00	26.65
ATOM	11011	O	LEU	1637	32.139	-6.884	-2.117	1.00	24.18
ATOM	11012	N	GLY	1638	33.662	-5.808	-1.134	1.00	23.25
ATOM	11013	CA	GLY	1638	39.963	-1.411	-2.310	1.00	23.56
ATOM	11014	C	GLY	1638	38.133	-3.834	-1.000	1.00	23.91
ATOM	11015	O	GLY	1638	38.664	-3.881	-0.858	1.00	23.30
ATOM	11016	N	LEU	1638	37.537	-3.141	-2.117	1.00	23.17
ATOM	11017	CA	LEU	1638	36.834	-1.898	-2.160	1.00	27.72
ATOM	11018	CB	LEU	1638	36.111	-1.884	-2.488	1.00	23.18
ATOM	11019	CG	LEU	1638	36.006	-0.163	-1.100	1.00	30.72
ATOM	11020	CD1	LEU	1638	35.667	-0.127	-1.110	1.00	31.76
ATOM	11021	CD2	LEU	1638	34.409	-0.223	-1.066	1.00	33.99
ATOM	11022	I	LEU	1638	35.667	-2.110	-1.021	1.00	23.43
ATOM	11023	O	LEU	1638	34.575	-2.531	-2.067	1.00	26.50
ATOM	11024	N	THR	1639	35.433	-2.813	-0.329	1.00	23.20
ATOM	11025	CA	THR	1639	34.366	-2.159	0.698	1.00	23.91
ATOM	11026	CB	THR	1639	35.432	-2.865	1.370	1.00	23.17
ATOM	11027	CG1	THR	1639	36.517	-2.896	2.442	1.00	30.62
ATOM	11028	CG2	THR	1639	35.968	-4.135	1.679	1.00	30.17
ATOM	11029	I	THR	1639	34.171	-0.451	1.057	1.00	23.17
ATOM	11030	O	THR	1639	31.667	-0.177	1.474	1.00	29.15
ATOM	11031	N	PRO	1640	32.991	-0.896	0.463	1.00	27.49
ATOM	11032	CD	PRO	1640	32.251	-1.895	-0.339	1.00	27.96
ATOM	11033	CA	PRO	1640	32.189	-0.702	0.674	1.00	26.18
ATOM	11034	CB	PRO	1640	31.897	-0.702	-0.092	1.00	26.35
ATOM	11035	CG	PRO	1640	30.432	-1.190	-0.098	1.00	29.35
ATOM	11036	C	PRO	1640	31.952	0.977	2.124	1.00	25.02
ATOM	11037	O	PRO	1640	31.763	2.171	2.332	1.00	24.64
ATOM	11038	N	GLN	1642	31.968	0.964	3.070	1.00	23.18
ATOM	11039	CA	GLN	1642	31.768	0.475	4.459	1.00	23.68

ATOM	11041	IB	GLN	1642	41.161	-9.751	5.159	1.00	34.74
ATOM	11041	CB	GLN	1642	40.149	-1.427	5.431	1.00	32.41
ATOM	11041	H	GLN	1642	40.142	-2.633	6.104	1.00	35.04
ATOM	11042	BE1	GLN	1642	41.017	-2.910	7.025	1.00	33.03
ATOM	11044	NEH	GLN	1642	39.204	-3.457	5.295	1.00	33.55
ATOM	11044	C	GLN	1642	41.752	1.363	4.711	1.00	34.13
ATOM	11044	O	GLN	1642	42.781	2.160	5.842	1.00	34.82
ATOM	11047	N	SEP	1643	41.061	1.235	4.127	1.00	33.66
ATOM	11048	CA	SEP	1643	40.246	2.013	4.119	1.00	34.17
ATOM	11049	CP	SEP	1643	40.478	1.116	4.556	1.00	35.24
ATOM	11050	PG	SEP	1643	40.742	0.116	5.570	1.00	31.44
ATOM	11051	C	SEP	1643	40.674	3.157	3.516	1.00	35.48
ATOM	11052	O	SEP	1643	41.002	3.614	3.348	1.00	34.46
ATOM	11053	N	VAL	1644	41.400	3.558	2.908	1.00	26.06
ATOM	11054	CA	VAL	1644	41.402	4.671	1.924	1.00	26.14
ATOM	11055	CB	VAL	1644	43.109	5.080	1.402	1.00	25.49
ATOM	11056	CG1	VAL	1644	42.758	5.413	2.541	1.00	26.03
ATOM	11057	CG2	VAL	1644	43.156	6.110	0.393	1.00	25.29
ATOM	11058	C	VAL	1644	45.109	5.905	2.501	1.00	27.56
ATOM	11059	O	VAL	1644	46.063	6.500	1.847	1.00	27.45
ATOM	11060	N	ASN	1645	44.866	6.282	3.732	1.00	27.89
ATOM	11061	CA	ASN	1645	45.480	7.452	4.759	1.00	28.79
ATOM	11062	CP	ASN	1645	44.779	7.776	5.482	1.00	27.21
ATOM	11063	CG	ASN	1645	43.131	8.190	5.486	1.00	25.14
ATOM	11064	GL1	ASN	1645	43.045	9.263	4.967	1.00	27.31
ATOM	11065	ND2	ASN	1645	41.408	7.321	5.688	1.00	25.99
ATOM	11066	C	ASN	1645	46.171	7.241	4.159	1.00	29.53
ATOM	11067	O	ASN	1645	47.136	8.205	4.656	1.00	29.64
ATOM	11068	N	ILE	1646	47.173	6.903	4.715	1.00	30.78
ATOM	11069	CA	ILE	1646	48.772	5.626	4.931	1.00	31.32
ATOM	11070	CB	ILE	1646	48.722	4.153	5.196	1.00	31.95
ATOM	11071	CG2	ILE	1646	46.199	3.752	5.577	1.00	31.10
ATOM	11072	CG1	ILE	1646	48.155	3.977	6.806	1.00	31.77
ATOM	11073	CD1	ILE	1646	49.771	4.789	7.862	1.00	31.61
ATOM	11074	C	ILE	1646	49.762	5.803	3.634	1.00	33.51
ATOM	11075	O	ILE	1646	46.951	6.377	3.444	1.00	34.78
ATOM	11076	N	PHE	1647	49.109	5.124	2.326	1.00	34.55
ATOM	11077	CA	PHE	1647	49.164	5.493	1.121	1.00	34.75
ATOM	11078	CB	PHE	1647	49.163	4.429	0.127	1.00	34.18
ATOM	11079	CG	PHE	1647	49.151	3.014	0.734	1.00	34.21
ATOM	11080	CD1	PHE	1647	46.181	2.435	1.100	1.00	34.15
ATOM	11081	CD2	PHE	1647	47.181	2.757	0.601	1.00	34.37
ATOM	11082	CE1	PHE	1647	46.164	1.120	1.167	1.00	34.58
ATOM	11083	CE2	PHE	1647	47.141	0.943	1.096	1.00	34.69
ATOM	11084	CE	PHE	1647	49.181	0.173	1.461	1.00	34.61
ATOM	11085	C	PHE	1647	49.171	6.840	0.649	1.00	34.49
ATOM	11086	O	PHE	1647	46.184	7.243	-0.137	1.00	34.05
ATOM	11087	N	GLY	1648	49.118	7.597	1.170	1.00	34.62
ATOM	11088	CA	GLY	1648	49.179	8.169	0.450	1.00	34.10
ATOM	11089	C	GLY	1648	47.121	8.878	-0.671	1.00	34.02
ATOM	11090	O	GLY	1648	47.166	9.822	-1.113	1.00	34.17
ATOM	11091	N	GLY	1648	46.101	7.772	-0.196	1.00	34.09
ATOM	11092	CA	GLY	1648	47.144	7.608	-1.136	1.00	34.04
ATOM	11093	C	GLY	1648	47.189	6.544	-2.177	1.00	34.17
ATOM	11094	O	GLY	1648	46.153	5.924	-3.175	1.00	34.14
ATOM	11095	N	TYR	1650	47.129	5.927	-4.196	1.00	34.17
ATOM	11096	CA	TYR	1650	47.114	4.542	-4.178	1.00	34.61
ATOM	11097	CB	TYR	1650	48.100	4.258	-4.135	1.00	34.67
ATOM	11098	CG	TYR	1650	47.151	4.336	-3.113	1.00	34.02
ATOM	11099	CD1	TYR	1650	47.142	5.623	-3.448	1.00	34.47
ATOM	11100	CE1	TYR	1650	47.142	5.783	-2.487	1.00	34.46
ATOM	11101	CD2	TYR	1650	47.291	3.235	-2.988	1.00	34.45
ATOM	11102	CE2	TYR	1650	47.291	3.344	-2.011	1.00	34.29
ATOM	11103	CZ	TYR	1650	47.122	4.637	-1.737	1.00	34.17
ATOM	11104	OH	TYR	1650	49.135	4.767	-0.327	1.00	34.16
ATOM	11105	C	TYR	1650	46.272	4.448	-5.280	1.00	34.09
ATOM	11106	O	TYR	1650	45.975	4.647	-6.143	1.00	34.93
ATOM	11107	N	LYS	1651	47.503	4.135	-4.981	1.00	34.34
ATOM	11108	CA	LYS	1651	48.614	4.077	-5.815	1.00	34.77
ATOM	11109	CB	LYS	1651	49.805	4.840	-5.106	1.00	34.31
ATOM	11110	CG	LYS	1651	49.467	6.325	-4.935	1.00	34.04
ATOM	11111	CD	LYS	1651	49.646	7.053	-4.365	1.00	34.24
ATOM	11112	CE	LYS	1651	49.313	8.473	-3.962	1.00	34.15
ATOM	11113	NZ	LYS	1651	47.543	9.238	-3.468	1.00	34.01
ATOM	11114	C	LYS	1651	49.026	2.618	-5.932	1.00	34.53
ATOM	11115	O	LYS	1651	48.815	1.797	-5.037	1.00	34.02
ATOM	11116	N	VAL	1652	49.614	2.300	-7.131	1.00	34.03

ATOM	11117	CA	VAL	1652	40.063	0.941	-7.409	1.00	45.48
ATOM	11118	CB	VAL	1652	40.715	0.838	-8.803	1.00	45.21
ATOM	11119	CG1	VAL	1652	41.716	-0.577	-9.039	1.00	45.09
ATOM	11120	CG2	VAL	1652	39.708	1.228	-9.874	1.00	44.78
ATOM	11121	C	VAL	1652	41.080	0.510	-6.360	1.00	45.61
ATOM	11122	O	VAL	1652	41.910	1.207	-5.951	1.00	44.96
ATOM	11123	N	GIN	1653	41.612	-0.735	-5.963	1.00	45.29
ATOM	11124	CA	GIN	1653	41.917	-1.286	-4.955	1.00	45.81
ATOM	11125	CB	GIN	1653	41.109	-1.795	-7.798	1.00	47.31
ATOM	11126	CG	GIN	1653	41.737	-1.510	-6.405	1.00	47.72
ATOM	11127	CD	GIN	1653	41.812	-0.073	-7.097	1.00	47.56
ATOM	11128	CE1	GIN	1653	40.891	0.633	-6.122	1.00	47.96
ATOM	11129	CE2	GIN	1653	42.611	0.451	-1.790	1.00	48.46
ATOM	11130	C	GIN	1653	41.745	-2.421	-5.549	1.00	48.65
ATOM	11131	O	GIN	1653	42.340	-3.045	-6.525	1.00	48.37
ATOM	11132	N	GLY	1654	41.807	-2.685	-4.955	1.00	48.98
ATOM	11133	CA	GLY	1654	44.758	-2.771	-5.455	1.00	46.61
ATOM	11134	C	GLY	1654	45.841	-2.177	-6.323	1.00	47.53
ATOM	11135	O	GLY	1654	46.617	-3.974	-6.455	1.00	46.50
ATOM	11136	N	LEU	1655	45.763	-2.066	-6.320	1.00	48.61
ATOM	11137	CA	ARG	1655	46.795	-1.577	-7.778	1.00	49.79
ATOM	11138	CB	ARG	1655	46.421	-0.067	-8.341	1.00	50.69
ATOM	11139	CG	ARG	1655	45.751	0.099	-6.980	1.00	51.67
ATOM	11140	CD	ARG	1655	45.449	0.007	-10.469	1.00	52.58
ATOM	11141	NE	ARG	1655	44.145	0.096	-11.297	1.00	52.70
ATOM	11142	CZ	ARG	1655	43.421	1.131	-11.379	1.00	52.20
ATOM	11143	NH1	ARG	1655	42.458	1.205	-10.354	1.00	52.02
ATOM	11144	NH2	ARG	1655	42.560	1.134	-12.175	1.00	51.43
ATOM	11145	C	ARG	1655	48.145	-1.512	-7.071	1.00	50.62
ATOM	11146	O	ARG	1655	48.728	-0.810	-6.665	1.00	50.32
ATOM	11147	N	GLY	1656	45.693	-1.182	-7.897	1.00	51.16
ATOM	11148	CA	GLY	1656	50.411	-1.579	-6.884	1.00	52.70
ATOM	11149	C	GLY	1656	50.786	-3.579	-6.531	1.00	53.14
ATOM	11150	O	GLY	1656	49.950	-3.649	-6.523	1.00	53.20
ATOM	11151	N	ASP	1657	51.041	-3.629	-6.119	1.00	53.65
ATOM	11152	CA	ASP	1657	51.323	-5.170	-5.749	1.00	53.10
ATOM	11153	CB	ASP	1657	51.431	-5.338	-5.770	1.00	55.47
ATOM	11154	CG	ASP	1657	51.406	-5.571	-7.149	1.00	56.62
ATOM	11155	OD1	ASP	1657	51.061	-6.327	-8.722	1.00	56.80
ATOM	11156	OD2	ASP	1657	51.144	-7.444	-7.112	1.00	57.58
ATOM	11157	C	ASP	1657	51.103	-6.792	-4.473	1.00	57.99
ATOM	11158	O	ASP	1657	51.72	-6.434	-3.778	1.00	52.64
ATOM	11159	N	GLU	1658	51.886	-1.374	-8.847	1.00	52.53
ATOM	11160	CA	GLU	1658	51.74	-4.507	-11.211	1.00	52.30
ATOM	11161	CB	GLU	1658	51.827	-5.182	-11.213	1.00	53.17
ATOM	11162	CG	GLU	1658	51.533	-3.174	-6.766	1.00	54.60
ATOM	11163	CD	GLU	1658	51.113	-1.077	-6.877	1.00	55.75
ATOM	11164	OE1	GLU	1658	51.511	-1.562	-6.768	1.00	56.32
ATOM	11165	OE2	GLU	1658	51.597	-1.513	-1.269	1.00	55.93
ATOM	11166	C	GLU	1658	51.651	-3.572	-11.671	1.00	57.14
ATOM	11167	O	GLU	1658	51.491	-5.649	-10.871	1.00	59.90
ATOM	11168	N	ALA	1659	51.021	-6.770	-11.171	1.00	49.34
ATOM	11169	CA	ALA	1659	48.77	-1.469	-11.000	1.00	49.05
ATOM	11170	CB	ALA	1659	48.769	-1.904	-11.871	1.00	48.15
ATOM	11171	C	ALA	1659	48.74	-7.173	-11.771	1.00	48.33
ATOM	11172	O	ALA	1659	48.789	-7.037	-11.671	1.00	48.39
ATOM	11173	N	GLY	1660	48.179	-7.833	-8.718	1.00	44.15
ATOM	11174	CA	GLY	1660	47.737	-8.874	-4.677	1.00	47.35
ATOM	11175	C	GLY	1660	48.177	-8.135	-3.121	1.00	49.31
ATOM	11176	O	GLY	1660	48.107	-8.125	-8.167	1.00	48.65
ATOM	11177	N	ASN	1661	48.639	-6.309	-1.114	1.00	49.09
ATOM	11178	CA	ASN	1661	50.855	-6.343	-11.171	1.00	49.26
ATOM	11179	CB	ASN	1661	51.764	-6.293	-11.555	1.00	42.10
ATOM	11180	CG	ASN	1661	51.768	-6.258	-8.449	1.00	42.42
ATOM	11181	OD1	ASN	1661	51.150	-10.179	-11.703	1.00	43.87
ATOM	11182	OD2	ASN	1661	54.223	-8.460	-7.177	1.00	45.92
ATOM	11183	C	ASN	1661	49.717	-9.386	-11.632	1.00	45.35
ATOM	11184	O	ASN	1661	48.929	-10.460	-11.455	1.00	46.60
ATOM	11185	N	GLN	1662	49.814	-8.211	-10.442	1.00	47.31
ATOM	11186	CA	GLN	1662	48.606	-8.134	-10.323	1.00	47.41
ATOM	11187	CB	GLN	1662	48.199	-6.673	-11.336	1.00	48.32
ATOM	11188	CG	GLN	1662	47.757	-6.510	-11.647	1.00	48.13
ATOM	11189	CD	GLN	1662	47.634	-7.585	-11.671	1.00	43.63
ATOM	11190	OE1	GLN	1662	49.108	-7.733	-11.993	1.00	44.57
ATOM	11191	NE2	GLN	1662	46.937	-8.251	-11.186	1.00	45.05
ATOM	11192	C	GLN	1662	46.472	-8.631	0.694	1.00	46.59
ATOM	11193	O	GLN	1662	46.316	-9.209	1.632	1.00	45.25

ATOM	11184	N	LEU	1663	44.1078	-8.4098	-0.474	1.00	36.15
ATOM	11185	CA	LEU	1663	44.1911	-8.3831	-0.773	1.00	35.64
ATOM	11186	CB	LEU	1663	44.359	-8.186	-1.099	1.00	33.34
ATOM	11187	CG	LEU	1663	44.661	-6.666	-1.919	1.00	34.62
ATOM	11188	CD1	LEU	1663	43.826	-6.158	-3.183	1.00	40.42
ATOM	11189	CD2	LEU	1663	42.921	-6.454	-3.884	1.00	40.12
ATOM	11190	E	LEU	1663	44.880	-10.867	-0.875	1.00	34.87
ATOM	11191	S	LEU	1663	42.997	-11.039	-0.333	1.00	33.09
ATOM	11192	N	LEU	1663	45.850	-10.912	-1.064	1.00	31.29
ATOM	11203	CA	LEU	1663	45.923	-12.353	-1.808	1.00	30.95
ATOM	11204	CB	LEU	1663	45.162	-12.696	-2.736	1.00	34.05
ATOM	11205	CG	LEU	1663	46.949	-12.995	-3.555	1.00	25.66
ATOM	11206	CD1	LEU	1663	45.242	-13.689	-4.444	1.00	37.45
ATOM	11207	CD2	LEU	1663	46.639	-13.155	-3.833	1.00	36.48
ATOM	11208	E	LEU	1663	46.161	-13.026	-0.454	1.00	29.08
ATOM	11209	O	LEU	1663	45.667	-13.307	-0.176	1.00	36.43
ATOM	11210	N	LEU	1663	46.901	-12.731	-0.463	1.00	26.84
ATOM	11211	CA	LEU	1663	47.197	-12.887	-1.713	1.00	25.84
ATOM	11212	CB	LEU	1663	48.212	-12.017	-2.447	1.00	26.63
ATOM	11213	CG	LEU	1663	48.565	-12.558	-3.717	1.00	28.52
ATOM	11214	E	LEU	1663	45.892	-12.931	-2.533	1.00	24.57
ATOM	11215	O	LEU	1663	45.542	-13.949	-2.132	1.00	23.68
ATOM	11216	N	ASP	1666	45.166	-12.819	-2.532	1.00	24.43
ATOM	11217	CA	ASP	1666	46.901	-11.738	-1.258	1.00	25.90
ATOM	11218	CB	ASP	1666	47.296	-10.328	-0.170	1.00	25.16
ATOM	11219	CG	ASP	1666	44.099	-9.196	-1.957	1.00	27.11
ATOM	11220	CD1	ASP	1666	44.604	-9.652	-3.009	1.00	26.45
ATOM	11221	CD2	ASP	1666	44.100	-8.117	-3.534	1.00	27.04
ATOM	11222	E	ASP	1666	42.913	-12.759	-2.714	1.00	25.78
ATOM	11223	O	ASP	1666	42.118	-13.383	-3.473	1.00	25.18
ATOM	11224	N	ALA	1667	42.916	-12.936	-1.397	1.00	25.37
ATOM	11225	CA	ALA	1667	42.012	-13.897	-0.765	1.00	24.67
ATOM	11226	CB	ALA	1667	42.187	-13.849	-0.794	1.00	24.78
ATOM	11227	C	ALA	1667	42.297	-15.194	-1.287	1.00	24.19
ATOM	11228	O	ALA	1667	41.302	-16.026	-1.673	1.00	22.35
ATOM	11229	N	LEU	1668	43.500	-15.472	-1.302	1.00	22.07
ATOM	11230	CA	LEU	1668	43.901	-16.496	-1.782	1.00	22.47
ATOM	11231	CB	LEU	1668	43.404	-17.357	-1.806	1.00	23.09
ATOM	11232	CG	LEU	1668	45.705	-17.599	-0.047	1.00	23.46
ATOM	11233	CD1	LEU	1668	47.209	-17.456	-0.168	1.00	24.35
ATOM	11234	CD2	LEU	1668	45.205	-19.607	-0.278	1.00	23.63
ATOM	11235	E	LEU	1668	44.608	-17.140	-1.388	1.00	22.33
ATOM	11236	O	LEU	1668	43.208	-18.212	-1.782	1.00	22.16
ATOM	11237	N	ALA	1669	43.877	-16.350	-4.038	1.00	22.43
ATOM	11238	CA	ALA	1669	43.602	-16.981	-3.479	1.00	22.18
ATOM	11239	CB	ALA	1669	43.006	-14.781	-3.111	1.00	23.50
ATOM	11240	C	ALA	1669	42.107	-16.329	-3.775	1.00	21.87
ATOM	11241	E	ALA	1669	42.909	-17.177	-6.600	1.00	22.27
ATOM	11242	N	LEU	1670	41.204	-15.585	-5.098	1.00	20.76
ATOM	11243	CA	LEU	1670	39.846	-15.721	-5.288	1.00	18.56
ATOM	11244	CB	LEU	1670	39.007	-14.737	-4.601	1.00	19.24
ATOM	11245	CG	LEU	1670	38.265	-13.160	-4.755	1.00	18.45
ATOM	11246	CD1	LEU	1670	38.703	-12.377	-3.662	1.00	19.75
ATOM	11247	CD2	LEU	1670	38.509	-12.471	-6.086	1.00	19.43
ATOM	11248	E	LEU	1670	38.435	-17.146	-4.962	1.00	19.70
ATOM	11249	O	LEU	1670	38.507	-17.714	-5.659	1.00	18.51
ATOM	11250	N	GLU	1671	38.967	-17.320	-6.901	1.00	18.69
ATOM	11251	CA	GLU	1671	38.602	-16.975	-5.918	1.00	19.64
ATOM	11252	CB	GLU	1671	40.303	-16.174	-5.215	1.00	19.59
ATOM	11253	CG	GLU	1671	40.042	-20.329	-1.816	1.00	22.61
ATOM	11254	CD	GLU	1671	40.700	-21.305	-3.530	1.00	24.31
ATOM	11255	OE1	GLU	1671	42.015	-21.096	-0.458	1.00	23.91
ATOM	11256	OE2	GLU	1671	40.128	-21.404	-0.398	1.00	27.07
ATOM	11257	C	GLU	1671	39.978	-20.970	-4.616	1.00	18.25
ATOM	11258	O	GLU	1671	39.164	-20.301	-5.016	1.00	17.58
ATOM	11259	N	ALA	1672	41.217	-19.985	-5.095	1.00	19.78
ATOM	11260	CA	ALA	1672	41.638	-20.479	-6.148	1.00	20.26
ATOM	11261	CB	ALA	1672	43.164	-20.623	-6.434	1.00	21.78
ATOM	11262	C	ALA	1672	40.870	-20.710	-5.429	1.00	21.55
ATOM	11263	O	ALA	1672	40.644	-21.564	-4.192	1.00	21.04
ATOM	11264	N	ALA	1673	40.332	-19.492	-5.654	1.00	19.63
ATOM	11265	CA	ALA	1673	39.575	-19.175	-4.831	1.00	19.73
ATOM	11266	CB	ALA	1673	39.398	-17.665	-4.952	1.00	18.51
ATOM	11267	C	ALA	1673	38.212	-19.857	-3.782	1.00	20.99
ATOM	11268	O	ALA	1673	37.545	-20.910	-5.807	1.00	19.77
ATOM	11269	N	GLY	1674	37.786	-20.248	-7.584	1.00	20.06
ATOM	11270	CA	GLY	1674	36.510	-20.928	-7.453	1.00	19.89

ATOM	11271	C	GLY	1674	35.552	-20.334	6.444	1.00	18.97
ATOM	11272	O	GLY	1674	34.468	-20.238	6.145	1.00	18.23
ATOM	11273	N	ALA	1675	35.936	-19.217	5.813	1.00	19.69
ATOM	11274	CA	ALA	1675	35.073	-18.589	4.812	1.00	20.14
ATOM	11275	CB	ALA	1675	35.736	-17.712	4.197	1.00	19.92
ATOM	11276	C	ALA	1675	34.830	-19.192	5.640	1.00	21.06
ATOM	11277	O	ALA	1675	35.771	-20.194	3.115	1.00	21.86
ATOM	11278	N	GLA	1676	33.565	-19.741	3.285	1.00	20.43
ATOM	11279	CA	GLA	1676	33.194	-20.639	2.218	1.00	20.46
ATOM	11280	CB	GLA	1676	31.921	-21.426	2.579	1.00	21.87
ATOM	11281	CG	GLA	1676	32.049	-22.250	3.854	1.00	21.52
ATOM	11282	CH	GLA	1676	30.805	-23.067	3.167	1.00	24.30
ATOM	11283	CH1	GLA	1676	30.476	-24.037	3.444	1.00	30.08
ATOM	11284	CH2	GLA	1676	30.116	-22.707	5.244	1.00	29.15
ATOM	11285	C	GLN	1676	33.982	-19.938	0.829	1.00	19.59
ATOM	11286	O	GLN	1676	33.821	-20.572	-0.183	1.00	20.03
ATOM	11287	N	LEU	1677	32.973	-18.612	3.327	1.00	20.26
ATOM	11288	CA	LEU	1677	32.793	-17.782	-0.297	1.00	20.79
ATOM	11289	CB	LEU	1677	31.314	-17.476	-0.487	1.00	21.99
ATOM	11290	CG	LEU	1677	30.499	-18.528	-1.127	1.00	20.39
ATOM	11291	CH1	LEU	1677	29.007	-18.325	-0.979	1.00	24.62
ATOM	11292	CH2	LEU	1677	30.621	-18.426	-2.711	1.00	21.79
ATOM	11293	C	LEU	1677	33.570	-16.496	-0.091	1.00	21.45
ATOM	11294	O	LEU	1677	33.826	-16.056	1.639	1.00	20.88
ATOM	11295	N	LEU	1678	33.944	-15.881	-1.219	1.00	17.59
ATOM	11296	CA	LEU	1678	34.675	-14.615	-1.167	1.00	20.63
ATOM	11297	CB	LEU	1678	36.189	-14.847	-1.284	1.00	19.25
ATOM	11298	CG	LEU	1678	35.026	-13.574	-1.447	1.00	21.72
ATOM	11299	CH1	LEU	1678	36.892	-11.699	-0.567	1.00	19.17
ATOM	11300	CH2	LEU	1678	36.487	-13.457	-1.671	1.00	2.98
ATOM	11301	C	LEU	1679	34.238	-12.695	-2.243	1.00	19.21
ATOM	11302	O	LEU	1679	34.090	-14.119	-3.431	1.00	20.80
ATOM	11303	N	VAL	1679	34.016	-12.475	-1.947	1.00	19.16
ATOM	11304	CA	VAL	1679	33.659	-11.455	-2.923	1.00	20.39
ATOM	11305	CB	VAL	1679	32.395	-10.630	-2.476	1.00	19.97
ATOM	11306	CG1	VAL	1679	32.302	-9.423	-3.259	1.00	19.05
ATOM	11307	CG2	VAL	1679	31.145	-11.517	-2.811	1.00	17.14
ATOM	11308	C	VAL	1679	34.799	-10.463	-2.121	1.00	21.00
ATOM	11309	O	VAL	1679	35.331	-9.989	-2.143	1.00	20.40
ATOM	11310	N	LEU	1680	33.174	-10.249	-4.737	1.00	21.77
ATOM	11311	CA	LEU	1680	36.259	-9.315	-4.745	1.00	24.69
ATOM	11312	CB	LEU	1680	35.167	-10.617	-5.667	1.00	25.88
ATOM	11313	CG	LEU	1680	34.561	-10.519	-5.135	1.00	25.71
ATOM	11314	CH1	LEU	1680	32.114	-11.167	-6.131	1.00	25.11
ATOM	11315	CH2	LEU	1680	33.379	-9.338	-4.757	1.00	24.00
ATOM	11316	C	LEU	1680	35.631	-8.147	-5.443	1.00	20.79
ATOM	11317	O	LEU	1680	34.934	-8.738	-6.117	1.00	28.38
ATOM	11318	N	GLU	1681	31.339	-6.934	-4.856	1.00	21.86
ATOM	11319	CA	GLU	1681	33.262	-7.753	-5.611	1.00	20.79
ATOM	11320	CB	GLU	1681	34.233	-7.169	-4.616	1.00	20.80
ATOM	11321	CG	GLU	1681	35.733	-6.635	-5.374	1.00	20.11
ATOM	11322	CH	GLU	1681	37.599	-5.133	-4.164	1.00	21.80
ATOM	11323	CH1	GLU	1681	37.430	-5.717	-3.127	1.00	20.14
ATOM	11324	CH2	GLU	1681	37.329	-5.736	-4.131	1.00	20.76
ATOM	11325	C	GLU	1681	36.032	-4.732	-6.157	1.00	20.75
ATOM	11326	O	GLU	1681	37.131	-4.327	-5.617	1.00	20.66
ATOM	11327	N	CYS	1682	36.117	-3.764	-7.739	1.00	20.09
ATOM	11328	CA	CYS	1682	36.332	-3.378	-8.045	1.00	30.51
ATOM	11329	CB	CYS	1682	36.562	-4.968	-7.634	1.00	30.60
ATOM	11330	CG	CYS	1682	35.887	-1.555	-8.151	1.00	30.38
ATOM	11331	C	CYS	1682	38.463	-3.582	-7.719	1.00	31.19
ATOM	11332	O	CYS	1682	39.075	-2.841	-6.784	1.00	31.08
ATOM	11333	N	VAL	1683	39.039	-4.593	-8.405	1.00	31.31
ATOM	11334	CA	VAL	1683	40.436	-4.922	-8.148	1.00	31.78
ATOM	11335	CB	VAL	1683	40.699	-6.146	-7.312	1.00	30.51
ATOM	11336	CG1	VAL	1683	40.443	-7.443	-8.094	1.00	30.50
ATOM	11337	CG2	VAL	1683	41.927	-6.035	-6.596	1.00	34.74
ATOM	11338	C	VAL	1683	40.971	-5.249	-8.645	1.00	30.46
ATOM	11339	O	VAL	1683	41.218	-5.684	-10.516	1.00	30.44
ATOM	11340	N	PRO	1684	43.274	-5.324	-9.887	1.00	30.91
ATOM	11341	CD	PRO	1684	43.339	-4.567	-8.373	1.00	30.50
ATOM	11342	CA	PRO	1684	42.317	-5.330	-11.216	1.00	30.77
ATOM	11343	CB	PRO	1684	44.397	-5.311	-11.066	1.00	34.17
ATOM	11344	CG	PRO	1684	44.558	-5.205	-9.598	1.00	34.44
ATOM	11345	C	PRO	1684	42.557	-6.783	-11.515	1.00	30.67
ATOM	11346	O	PRO	1684	42.807	-7.693	-10.806	1.00	33.93
ATOM	11347	N	VAL	1685	42.043	-6.987	-12.802	1.00	33.35

ATOM	11348	CA	VAL	1685	41.771	-8.331	-13.301	1.00	33.55
ATOM	11349	CB	VAL	1685	41.535	-8.385	-13.877	1.00	33.86
ATOM	11350	CG1	VAL	1685	40.993	-9.650	-13.196	1.00	33.59
ATOM	11351	CG2	VAL	1685	40.601	-9.175	-13.316	1.00	33.41
ATOM	11352	C	VAL	1685	42.817	-9.343	-12.977	1.00	34.69
ATOM	11353	O	VAL	1685	42.579	-10.436	-12.463	1.00	34.21
ATOM	11354	N	GLU	1686	44.065	-8.994	-13.279	1.00	37.15
ATOM	11355	CA	GLU	1686	43.185	-8.683	-13.014	1.00	37.45
ATOM	11356	CB	GLU	1686	46.512	-9.245	-13.449	1.00	46.77
ATOM	11357	CG	GLU	1686	46.516	-7.719	-13.470	1.00	45.35
ATOM	11358	CD	GLU	1686	45.716	-7.144	-14.631	1.00	41.86
ATOM	11359	CE1	GLU	1686	45.988	-7.521	-13.793	1.00	48.37
ATOM	11360	CE2	GLU	1686	44.820	-6.310	-14.383	1.00	48.33
ATOM	11361	C	LEU	1686	45.259	-10.326	-11.595	1.00	35.39
ATOM	11362	O	LEU	1686	45.676	-11.460	-11.349	1.00	35.39
ATOM	11363	N	LEU	1687	44.896	-9.472	-12.654	1.00	34.93
ATOM	11364	CA	LEU	1687	44.926	-9.343	-9.284	1.00	34.56
ATOM	11365	CB	LEU	1687	44.773	-9.473	-9.433	1.00	36.48
ATOM	11366	CG	LEU	1687	45.413	-8.472	-7.007	1.00	31.23
ATOM	11367	CD1	LEU	1687	45.086	-7.168	-6.311	1.00	39.44
ATOM	11368	CD2	LEU	1687	44.909	-9.646	-6.189	1.00	40.16
ATOM	11369	C	LEU	1687	43.783	-10.706	-8.924	1.00	37.56
ATOM	11370	C	LEU	1687	43.940	-11.656	-8.166	1.00	31.33
ATOM	11371	N	ALA	1688	42.693	-10.455	-9.512	1.00	37.02
ATOM	11372	CA	ALA	1688	41.462	-11.303	-9.374	1.00	31.09
ATOM	11373	CB	ALA	1688	40.285	-10.748	-10.174	1.00	31.82
ATOM	11374	C	ALA	1688	41.798	-12.313	-9.841	1.00	31.88
ATOM	11375	C	ALA	1688	41.306	-13.698	-9.288	1.00	36.36
ATOM	11376	N	LYS	1689	42.642	-12.799	-10.865	1.00	32.19
ATOM	11377	CA	LYS	1689	43.965	-14.080	-11.410	1.00	31.59
ATOM	11378	CB	LYS	1689	43.921	-13.852	-12.667	1.00	31.35
ATOM	11379	CG	LYS	1689	43.301	-12.915	-13.688	1.00	39.20
ATOM	11380	CD	LYS	1689	44.230	-12.702	-14.875	1.00	45.71
ATOM	11381	CE	LYS	1689	43.639	-11.725	-15.875	1.00	44.72
ATOM	11382	NE	LYS	1689	44.550	-11.492	-17.912	1.00	46.96
ATOM	11383	C	LYS	1689	43.877	-14.854	-19.392	1.00	39.77
ATOM	11384	C	LYS	1689	42.635	-16.040	-19.158	1.00	39.60
ATOM	11385	N	ARG	1690	44.650	-16.171	-9.793	1.00	39.36
ATOM	11386	CA	ARG	1690	45.515	-14.773	-8.782	1.00	39.78
ATOM	11387	CB	ARG	1690	46.706	-13.738	-8.236	1.00	37.34
ATOM	11388	CG	ARG	1690	48.153	-13.968	-8.653	1.00	38.21
ATOM	11389	CD	ARG	1690	49.122	-13.194	-7.266	1.00	31.72
ATOM	11390	NE	ARG	1690	48.987	-11.749	-7.919	1.00	37.52
ATOM	11391	C	ARG	1690	49.548	-10.354	-7.110	1.00	38.86
ATOM	11392	NH1	ARG	1690	50.285	-12.253	-6.982	1.00	41.33
ATOM	11393	NH2	ARG	1690	49.374	-8.357	-7.331	1.00	38.70
ATOM	11394	C	ARG	1690	44.845	-15.329	-7.627	1.00	38.39
ATOM	11395	G	ARG	1690	45.018	-16.505	-7.271	1.00	37.49
ATOM	11396	N	ILE	1691	44.999	-14.475	-7.944	1.00	38.53
ATOM	11397	CA	ILE	1691	43.233	-14.874	-5.920	1.00	37.99
ATOM	11398	CB	ILE	1691	42.388	-13.687	-5.478	1.00	33.66
ATOM	11399	CG1	ILE	1691	41.431	-14.141	-4.619	1.00	33.67
ATOM	11400	CG2	ILE	1691	43.290	-12.569	-4.949	1.00	37.59
ATOM	11401	C	ILE	1691	43.571	-12.367	-4.387	1.00	31.13
ATOM	11402	O	ILE	1691	42.323	-16.053	-6.278	1.00	29.34
ATOM	11403	O	ILE	1691	42.287	-13.034	-5.531	1.00	31.13
ATOM	11404	N	THR	1692	41.635	-15.952	-7.412	1.00	27.89
ATOM	11405	CA	THR	1692	40.713	-17.016	-7.852	1.00	28.19
ATOM	11406	CB	THR	1692	40.049	-16.670	-9.237	1.00	27.32
ATOM	11407	CG1	THR	1692	39.395	-15.477	-9.070	1.00	30.15
ATOM	11408	CG2	THR	1692	39.142	-17.799	-9.672	1.00	21.79
ATOM	11409	C	THR	1692	41.468	-18.352	-7.975	1.00	23.83
ATOM	11410	O	THR	1692	40.967	-19.378	-7.523	1.00	27.86
ATOM	11411	N	GLU	1693	42.649	-18.346	-8.585	1.00	30.86
ATOM	11412	CA	GLU	1693	43.410	-19.582	-8.739	1.00	31.66
ATOM	11413	CB	GLU	1693	44.500	-19.403	-9.738	1.00	31.46
ATOM	11414	CG	GLU	1693	43.981	-19.142	-11.188	1.00	39.25
ATOM	11415	CD	GLU	1693	45.698	-18.913	-12.183	1.00	41.31
ATOM	11416	OE1	GLU	1693	45.841	-17.920	-12.046	1.00	42.03
ATOM	11417	OE2	GLU	1693	45.227	-19.228	-13.133	1.00	44.22
ATOM	11418	C	GLU	1693	44.031	-20.022	-7.417	1.00	31.18
ATOM	11419	O	GLU	1693	44.220	-21.219	-7.160	1.00	32.59
ATOM	11420	N	ALA	1694	44.339	-19.055	-6.556	1.00	29.06
ATOM	11421	CA	ALA	1694	44.954	-19.349	-5.263	1.00	28.83
ATOM	11422	CB	ALA	1694	45.568	-18.077	-4.681	1.00	28.10
ATOM	11423	C	ALA	1694	43.997	-19.975	-4.252	1.00	28.71
ATOM	11424	O	ALA	1694	44.398	-20.833	-3.463	1.00	27.31

ATOM	11434	N	LEU	1695	40.734	-19.556	-4.273	1.00	26.34
ATOM	11435	CA	LEU	1695	41.750	-20.163	-3.336	1.00	26.55
ATOM	11436	CB	LEU	1695	40.729	-19.075	-1.946	1.00	26.01
ATOM	11437	CG	LEU	1695	41.242	-17.849	-2.121	1.00	30.89
ATOM	11438	CH1	LEU	1695	40.062	-16.980	-1.700	1.00	27.57
ATOM	11439	CH2	LEU	1695	41.989	-18.348	-0.898	1.00	33.34
ATOM	11440	O	LEU	1695	41.062	-21.306	-3.886	1.00	26.44
ATOM	11441	O	LEU	1695	40.848	-21.452	-5.096	1.00	27.20
ATOM	11442	N	ALA	1696	40.541	-22.168	-2.691	1.00	24.30
ATOM	11443	CA	ALA	1696	39.750	-23.346	-1.391	1.00	27.55
ATOM	11444	CB	ALA	1696	40.076	-24.479	-1.415	1.00	27.99
ATOM	11445	O	ALA	1696	39.313	-22.983	-1.416	1.00	27.10
ATOM	11446	O	ALA	1696	37.566	-23.440	-4.779	1.00	24.16
ATOM	11447	N	ILE	1697	37.869	-22.155	-1.464	1.00	27.53
ATOM	11448	CA	ILE	1697	36.506	-21.734	-2.793	1.00	27.71
ATOM	11449	CB	ILE	1697	36.211	-20.965	-1.782	1.00	17.96
ATOM	11450	CG2	ILE	1697	36.340	-21.897	-0.113	1.00	17.11
ATOM	11451	CG1	ILE	1697	37.158	-19.776	-5.951	1.00	17.41
ATOM	11452	CH1	ILE	1697	36.776	-18.806	-0.147	1.00	26.97
ATOM	11453	O	ILE	1697	36.185	-20.827	-3.571	1.00	16.34
ATOM	11454	O	ILE	1697	37.073	-20.106	-4.155	1.00	26.05
ATOM	11455	N	PRO	1698	34.903	-20.739	-2.948	1.00	27.40
ATOM	11456	CD	PRO	1698	33.743	-21.568	-2.410	1.00	26.73
ATOM	11457	CA	PRO	1698	34.541	-19.878	-5.074	1.00	26.26
ATOM	11458	CB	PRO	1698	33.162	-20.502	-5.293	1.00	27.48
ATOM	11459	CG	PRO	1698	32.594	-20.847	-4.113	1.00	27.95
ATOM	11460	O	PRO	1698	34.689	-18.590	-4.769	1.00	26.91
ATOM	11461	O	PRO	1698	34.441	-17.931	-3.650	1.00	16.65
ATOM	11462	N	VAL	1699	35.138	-17.843	-5.776	1.00	16.53
ATOM	11463	CA	VAL	1699	35.137	-16.119	-5.837	1.00	16.92
ATOM	11464	CB	VAL	1699	36.862	-15.840	-5.891	1.00	26.40
ATOM	11465	CG1	VAL	1699	37.002	-14.723	-5.823	1.00	13.70
ATOM	11466	CG2	VAL	1699	37.781	-16.354	-5.028	1.00	14.50
ATOM	11467	O	VAL	1699	34.366	-15.480	-6.160	1.00	21.83
ATOM	11468	O	VAL	1699	34.374	-15.877	-7.779	1.00	23.52
ATOM	11469	N	ILE	1700	33.517	-14.648	-5.967	1.00	27.27
ATOM	11470	CA	ILE	1700	33.554	-13.883	-6.702	1.00	27.16
ATOM	11471	CB	ILE	1700	31.231	-13.759	-5.940	1.00	27.75
ATOM	11472	CG2	ILE	1700	30.242	-12.752	-6.706	1.00	22.27
ATOM	11473	CG1	ILE	1700	30.615	-15.180	-5.709	1.00	23.01
ATOM	11474	CD1	ILE	1700	29.476	-15.157	-4.789	1.00	24.61
ATOM	11475	O	ILE	1700	31.137	-12.564	-6.963	1.00	27.79
ATOM	11476	O	ILE	1700	31.557	-11.638	-6.036	1.00	27.47
ATOM	11477	N	GLY	1701	33.606	-12.979	-8.118	1.00	27.16
ATOM	11478	CA	GLY	1701	32.663	-10.773	-8.116	1.00	27.63
ATOM	11479	O	GLY	1701	32.635	-9.754	-8.938	1.00	27.57
ATOM	11480	O	GLY	1701	31.577	-10.703	-9.447	1.00	27.89
ATOM	11481	N	ILE	1702	32.940	-8.470	-6.041	1.00	27.15
ATOM	11482	CA	ILE	1702	32.184	-7.403	-6.963	1.00	25.68
ATOM	11483	CB	ILE	1702	31.735	-8.466	-7.834	1.00	23.11
ATOM	11484	CG2	ILE	1702	32.059	-6.473	-6.134	1.00	27.79
ATOM	11485	CG1	ILE	1702	30.679	-8.439	-6.635	1.00	23.41
ATOM	11486	CD1	ILE	1702	29.642	-9.485	-5.177	1.00	33.16
ATOM	11487	O	ILE	1702	31.039	-6.023	-5.731	1.00	25.67
ATOM	11488	O	ILE	1702	31.326	-5.553	-8.445	1.00	25.25
ATOM	11489	N	GLY	1703	33.515	-6.981	-10.338	1.00	27.76
ATOM	11490	CA	GLY	1703	34.531	-8.103	-11.017	1.00	27.69
ATOM	11491	O	GLY	1703	35.764	-5.717	-10.334	1.00	25.54
ATOM	11492	O	GLY	1703	36.873	-5.017	-10.830	1.00	27.11
ATOM	11493	N	ALA	1704	35.945	-7.937	-11.334	1.00	27.77
ATOM	11494	CA	ALA	1704	37.134	-7.957	-10.830	1.00	26.19
ATOM	11495	CB	ALA	1704	37.137	-8.691	-9.077	1.00	24.95
ATOM	11496	O	ALA	1704	37.454	-8.582	-13.738	1.00	26.93
ATOM	11497	O	ALA	1704	38.734	-9.482	-13.250	1.00	27.62
ATOM	11498	N	GLY	1705	36.725	-8.255	-14.393	1.00	27.42
ATOM	11499	CA	GLY	1705	36.835	-8.993	-14.735	1.00	27.32
ATOM	11500	O	GLY	1705	36.120	-10.297	-11.348	1.00	27.69
ATOM	11501	O	GLY	1705	35.490	-10.653	-14.551	1.00	26.16
ATOM	11493	N	ASN	1706	36.170	-11.017	-15.666	1.00	26.41
ATOM	11494	CA	ASN	1706	35.452	-12.279	-15.401	1.00	26.15
ATOM	11495	CB	ASN	1706	34.909	-12.423	-17.239	1.00	23.81
ATOM	11496	CG	ASN	1706	36.097	-12.410	-18.283	1.00	30.05
ATOM	11497	OD1	ASN	1706	35.750	-12.663	-19.462	1.00	32.36
ATOM	11498	ND2	ASN	1706	37.231	-12.111	-17.366	1.00	27.42
ATOM	11499	O	ASN	1706	36.306	-13.492	-15.452	1.00	27.06
ATOM	11500	O	ASN	1706	36.095	-14.603	-15.874	1.00	28.09
ATOM	11501	N	VAL	1707	37.358	-13.268	-14.669	1.00	25.49

ATOM	11502	CA	VAL	1707	38.170	-14.335	-14.158	1.00	38.170
ATOM	11503	CB	VAL	1707	39.700	-13.780	-14.647	1.00	39.711
ATOM	11504	CG1	VAL	1707	40.656	-14.914	-13.711	1.00	38.833
ATOM	11505	CG2	VAL	1707	40.169	-13.053	-15.799	1.00	39.800
ATOM	11506	C	VAL	1707	37.815	-15.016	-12.667	1.00	38.833
ATOM	11507	O	VAL	1707	38.311	-16.088	-12.812	1.00	38.600
ATOM	11508	N	THR	1708	36.878	-14.389	-12.263	1.00	36.126
ATOM	11509	CA	THR	1708	36.364	-14.948	-11.919	1.00	34.16
ATOM	11510	CB	THR	1708	35.625	-13.867	-10.727	1.00	32.78
ATOM	11511	CG1	THR	1708	34.731	-13.145	-11.359	1.00	30.56
ATOM	11512	CG2	THR	1708	36.620	-12.894	-9.582	1.00	32.51
ATOM	11513	C	THR	1708	35.427	-16.122	-11.300	1.00	27.44
ATOM	11514	O	THR	1708	34.965	-16.504	-12.427	1.00	24.03
ATOM	11515	N	ASP	1709	35.157	-18.901	-10.371	1.00	23.18
ATOM	11516	CA	ASP	1709	34.293	-18.698	-10.498	1.00	24.19
ATOM	11517	CB	ASP	1709	34.425	-18.954	-9.133	1.00	26.29
ATOM	11518	CG	ASP	1709	35.857	-19.162	-8.861	1.00	28.12
ATOM	11519	CD1	ASP	1709	36.395	-20.179	-9.436	1.00	28.85
ATOM	11520	CD2	ASP	1709	36.440	-18.858	-7.806	1.00	27.59
ATOM	11521	C	ASP	1709	32.843	-17.708	-10.808	1.00	24.14
ATOM	11522	O	ASP	1709	32.054	-18.461	-11.182	1.00	23.59
ATOM	11523	N	GLY	1710	32.499	-18.521	-10.127	1.00	22.85
ATOM	11524	CA	GLY	1710	31.143	-16.032	-10.261	1.00	21.16
ATOM	11525	C	GLY	1710	31.131	-14.512	-10.289	1.00	19.07
ATOM	11526	O	GLY	1710	32.163	-15.876	-10.513	1.00	18.12
ATOM	11527	N	GLN	1711	29.949	-13.596	-10.505	1.00	18.54
ATOM	11528	CA	GLN	1711	29.793	-12.510	-10.570	1.00	18.89
ATOM	11529	CB	GLN	1711	29.502	-12.074	-12.007	1.00	18.46
ATOM	11530	CG	GLN	1711	30.591	-12.373	-13.018	1.00	15.95
ATOM	11531	CD	GLN	1711	31.648	-11.589	-12.758	1.00	19.73
ATOM	11532	OE1	GLN	1711	31.796	-10.409	-12.418	1.00	20.40
ATOM	11533	NE2	GLN	1711	32.995	-13.137	-12.820	1.00	21.35
ATOM	11534	C	GLN	1711	28.623	-12.636	-9.712	1.00	19.38
ATOM	11535	O	GLN	1711	27.758	-12.852	-9.359	1.00	18.49
ATOM	11536	N	ILE	1712	28.605	-10.767	-9.411	1.00	21.16
ATOM	11537	CA	ILE	1712	27.522	-10.132	-8.634	1.00	23.23
ATOM	11538	CB	ILE	1712	27.772	-10.162	-7.169	1.00	24.48
ATOM	11539	CG2	ILE	1712	28.930	-9.742	-6.709	1.00	23.08
ATOM	11540	CG1	ILE	1712	28.492	-9.870	-6.365	1.00	25.35
ATOM	11541	CD1	ILE	1712	28.469	-10.280	-4.828	1.00	19.02
ATOM	11542	C	ILE	1712	27.374	-8.716	-9.365	1.00	14.32
ATOM	11543	O	ILE	1712	28.328	-8.065	-9.539	1.00	23.00
ATOM	11544	N	LEU	1713	26.172	-8.169	-9.988	1.00	24.37
ATOM	11545	CA	LEU	1713	25.514	-6.738	-9.249	1.00	27.03
ATOM	11546	CB	LEU	1713	25.833	-6.669	-10.772	1.00	30.07
ATOM	11547	CG	LEU	1713	26.489	-5.318	-11.427	1.00	33.56
ATOM	11548	CD1	LEU	1713	26.318	-5.532	-12.934	1.00	36.19
ATOM	11549	CD2	LEU	1713	25.851	-4.137	-13.868	1.00	36.32
ATOM	11550	C	LEU	1713	24.609	-5.396	-8.626	1.00	26.45
ATOM	11551	O	LEU	1713	27.323	-5.095	-8.338	1.00	23.98
ATOM	11552	N	VAL	1714	24.503	-4.489	-8.366	1.00	25.79
ATOM	11553	CA	VAL	1714	23.199	-4.410	-7.808	1.00	25.33
ATOM	11554	CB	VAL	1714	23.922	-3.443	-7.333	1.00	26.34
ATOM	11555	CG1	VAL	1714	22.245	-3.875	-7.789	1.00	25.71
ATOM	11556	CG2	VAL	1714	24.663	-3.378	-6.351	1.00	27.39
ATOM	11557	C	VAL	1714	22.715	-4.168	-8.686	1.00	24.33
ATOM	11558	O	VAL	1714	23.379	-3.413	-8.079	1.00	21.59
ATOM	11559	N	MET	1715	21.115	-5.146	-8.577	1.00	22.29
ATOM	11560	CA	MET	1715	20.026	-5.462	-9.511	1.00	20.64
ATOM	11561	CB	MET	1715	18.855	-5.559	-8.881	1.00	18.66
ATOM	11562	CG	MET	1715	18.253	-5.362	-7.697	1.00	16.93
ATOM	11563	SD	MET	1715	16.441	-5.323	-7.565	1.00	14.77
ATOM	11564	CE	MET	1715	15.937	-4.242	-8.684	1.00	11.34
ATOM	11565	C	MET	1715	15.519	-3.983	-10.101	1.00	19.32
ATOM	11566	O	MET	1715	15.062	-3.453	-11.213	1.00	21.61
ATOM	11567	N	HIS	1716	19.563	-2.890	-9.354	1.00	19.33
ATOM	11568	CA	HIS	1716	19.192	-1.800	-9.855	1.00	22.19
ATOM	11569	CB	HIS	1716	19.137	-0.396	-8.703	1.00	20.78
ATOM	11570	CG	HIS	1716	18.098	-0.432	-7.675	1.00	21.06
ATOM	11571	CD2	HIS	1716	18.126	-1.784	-6.623	1.00	18.32
ATOM	11572	ND1	HIS	1716	18.326	-2.399	-7.649	1.00	20.68
ATOM	11573	CE1	HIS	1716	16.116	-0.907	-6.707	1.00	18.23
ATOM	11574	NE2	HIS	1716	16.382	-1.750	-6.039	1.00	21.31
ATOM	11575	C	HIS	1716	23.035	-1.067	-11.018	1.00	27.57
ATOM	11576	O	HIS	1716	19.558	-0.273	-11.835	1.00	27.73
ATOM	11577	N	ASP	1717	21.267	-1.534	-11.097	1.00	23.70
ATOM	11578	CA	ASP	1717	22.145	-1.089	-12.199	1.00	26.09

ATOM	11579	CB	ASP	1717	23.615	-1.081	-11.768	1.00	27.37
ATOM	11580	CG	ASP	1717	23.881	-0.050	-10.872	1.00	27.23
ATOM	11581	OD1	ASP	1717	23.834	-1.040	-10.740	1.00	28.27
ATOM	11582	OD2	ASP	1717	24.662	-0.786	-9.738	1.00	21.57
ATOM	11583	C	ASP	1717	21.949	-2.064	-13.351	1.00	21.25
ATOM	11584	O	ASP	1717	21.622	-1.657	-14.522	1.00	26.75
ATOM	11585	N	ALA	1718	21.641	-3.715	-13.311	1.00	26.99
ATOM	11586	CA	ALA	1718	21.424	-4.749	-14.019	1.00	28.53
ATOM	11587	CB	ALA	1718	21.320	-5.716	-13.344	1.00	28.77
ATOM	11588	C	ALA	1718	20.196	-4.099	-14.896	1.00	28.41
ATOM	11589	O	ALA	1718	20.106	-4.644	-15.995	1.00	29.83
ATOM	11590	N	PHE	1719	19.258	-3.738	-14.422	1.00	30.10
ATOM	11591	CA	PHE	1719	18.053	-2.948	-15.187	1.00	29.35
ATOM	11592	CB	PHE	1719	16.797	-3.436	-14.458	1.00	26.02
ATOM	11593	CG	PHE	1719	16.863	-4.860	-14.004	1.00	31.07
ATOM	11594	CD1	PHE	1719	17.196	-5.867	-13.870	1.00	34.00
ATOM	11595	CD2	PHE	1719	16.100	-5.115	-12.708	1.00	31.37
ATOM	11596	CD3	PHE	1719	17.079	-5.187	-14.453	1.00	31.80
ATOM	11597	CE2	PHE	1719	16.174	-6.537	-11.178	1.00	34.12
ATOM	11598	C3	PHE	1719	17.616	-7.534	-13.155	1.00	31.15
ATOM	11599	C	PHE	1719	17.912	-1.484	-15.507	1.00	30.13
ATOM	11600	O	PHE	1719	16.821	-1.021	-15.515	1.00	29.25
ATOM	11601	N	GLY	1720	18.999	-0.738	-15.391	1.00	30.77
ATOM	11602	CA	GLY	1720	18.995	0.680	-15.699	1.00	29.12
ATOM	11603	C	GLY	1720	17.997	1.436	-14.835	1.00	29.76
ATOM	11604	O	GLY	1720	17.524	2.546	-15.518	1.00	30.17
ATOM	11605	N	ILE	1721	17.701	0.949	-13.838	1.00	29.96
ATOM	11606	CA	ILE	1721	16.806	1.731	-12.561	1.00	29.33
ATOM	11607	CB	ILE	1721	16.112	0.817	-11.571	1.00	23.06
ATOM	11608	CG2	ILE	1721	15.467	1.839	-10.606	1.00	21.06
ATOM	11609	CG1	ILE	1721	15.492	-0.842	-12.118	1.00	28.06
ATOM	11610	CD1	ILE	1721	15.120	-1.365	-11.001	1.00	27.54
ATOM	11611	C	ILE	1721	17.536	2.840	-12.168	1.00	25.41
ATOM	11612	O	ILE	1721	16.780	4.120	-12.005	1.00	25.23
ATOM	11613	N	THR	1722	18.782	2.766	-11.572	1.00	28.15
ATOM	11614	CA	THR	1722	18.867	3.731	-11.008	1.00	31.68
ATOM	11615	CB	THR	1722	20.185	3.787	-10.788	1.00	31.43
ATOM	11616	CG1	THR	1722	21.178	2.663	-11.836	1.00	30.73
ATOM	11617	CG2	THR	1722	20.834	2.127	-9.633	1.00	28.06
ATOM	11618	C	THR	1722	18.158	4.643	-12.243	1.00	34.82
ATOM	11619	O	THR	1722	20.120	4.661	-13.816	1.00	34.13
ATOM	11620	N	GLY	1723	18.711	6.130	-11.816	1.00	38.15
ATOM	11621	CA	GLY	1723	20.101	7.442	-12.667	1.00	44.16
ATOM	11622	C	GLY	1723	20.190	7.053	-14.116	1.00	48.11
ATOM	11623	O	GLY	1723	18.534	6.943	-14.307	1.00	51.07
ATOM	11624	N	GLN	1724	21.511	7.483	-14.804	1.00	50.16
ATOM	11625	CA	GLN	1724	21.190	7.135	-15.836	1.00	50.11
ATOM	11626	C	GLN	1724	24.313	8.641	-16.338	1.00	54.00
ATOM	11627	O	GLN	1724	24.677	5.677	-16.805	1.00	51.13
ATOM	11628	N	HIS	1725	24.338	7.375	-15.363	1.00	55.00
ATOM	11629	CA	HIS	1725	26.742	6.981	-15.419	1.00	56.14
ATOM	11630	CB	HIS	1725	26.648	20.008	-15.214	1.00	58.71
ATOM	11631	CG	HIS	1725	26.016	9.073	-16.312	1.00	61.10
ATOM	11632	CD1	HIS	1725	26.115	19.113	-16.304	1.00	62.32
ATOM	11633	ND1	HIS	1725	26.821	8.712	-17.661	1.00	62.77
ATOM	11634	CE1	HIS	1725	26.743	9.481	-18.416	1.00	62.17
ATOM	11635	NE2	HIS	1725	26.603	10.823	-17.652	1.00	61.16
ATOM	11636	C	HIS	1725	26.093	5.797	-14.419	1.00	51.56
ATOM	11637	O	HIS	1725	26.673	6.073	-13.349	1.00	51.59
ATOM	11638	N	ILE	1726	25.754	1.555	-14.713	1.00	51.12
ATOM	11639	CA	ILE	1726	26.044	3.125	-13.845	1.00	53.31
ATOM	11640	CB	ILE	1726	25.356	2.134	-14.342	1.00	53.76
ATOM	11641	CG2	ILE	1726	23.343	2.277	-14.260	1.00	53.32
ATOM	11642	CG1	ILE	1726	25.783	1.345	-15.812	1.00	54.03
ATOM	11643	CD1	ILE	1726	25.277	0.524	-16.365	1.00	53.43
ATOM	11644	C	ILE	1726	27.551	3.195	-13.821	1.00	51.83
ATOM	11645	O	ILE	1726	24.297	3.709	-14.665	1.00	51.34
ATOM	11646	N	PRO	1727	24.329	2.431	-12.825	1.00	49.63
ATOM	11647	CD	PRO	1727	27.283	1.702	-11.735	1.00	49.25
ATOM	11648	CA	PRO	1727	24.463	2.172	-12.715	1.00	43.30
ATOM	11649	CB	PRO	1727	29.566	1.313	-11.453	1.00	43.75
ATOM	11650	CG	PRO	1727	24.250	0.611	-11.416	1.00	49.22
ATOM	11651	C	PRO	1727	30.040	1.480	-13.953	1.00	46.66
ATOM	11652	O	PRO	1727	29.363	0.669	-14.589	1.00	46.75
ATOM	11653	N	LYS	1728	31.283	1.808	-14.290	1.00	44.70
ATOM	11654	CA	LYS	1728	31.940	1.230	-15.457	1.00	42.31
ATOM	11655	CB	LYS	1728	33.379	1.747	-15.571	1.00	45.34

ATOM	11656	CG	LYS	1729	33.500	3.136	-16.065	1.00	49.09
ATOM	11657	CD	LYS	1729	33.932	4.138	-15.974	1.00	51.63
ATOM	11658	CE	LYS	1729	33.050	5.614	-15.598	1.00	52.00
ATOM	11659	NZ	LYS	1729	32.489	6.622	-14.646	1.00	54.39
ATOM	11660	C	LYS	1729	31.954	-0.233	-15.478	1.00	38.59
ATOM	11661	O	LYS	1729	31.994	-0.996	-16.536	1.00	37.57
ATOM	11662	N	PHE	1730	31.950	-0.904	-14.757	1.00	34.69
ATOM	11663	CA	PHE	1730	31.947	-2.358	-14.201	1.00	30.76
ATOM	11664	CB	PHE	1730	32.582	-2.792	-12.870	1.00	31.47
ATOM	11665	CG	PHE	1730	31.882	-2.234	-11.657	1.00	31.03
ATOM	11666	CD1	PHE	1730	30.666	-2.765	-11.232	1.00	31.71
ATOM	11667	CD2	PHE	1730	32.445	-1.150	-10.957	1.00	31.83
ATOM	11668	CE1	PHE	1730	30.027	-2.265	-10.059	1.00	30.47
ATOM	11669	CE2	PHE	1730	31.816	-0.674	-9.800	1.00	32.00
ATOM	11670	CZ	PHE	1730	30.604	-1.212	-9.381	1.00	32.06
ATOM	11671	O	PHE	1730	30.571	-2.989	-14.346	1.00	37.40
ATOM	11672	C	PHE	1730	30.460	-4.215	-14.486	1.00	26.03
ATOM	11673	N	ALA	1730	29.528	-2.151	-14.321	1.00	26.96
ATOM	11674	CA	ALA	1730	28.165	-2.694	-14.435	1.00	24.28
ATOM	11675	CB	ALA	1730	27.243	-1.978	-13.486	1.00	25.85
ATOM	11676	C	ALA	1730	27.627	-2.611	-15.852	1.00	26.64
ATOM	11677	O	ALA	1730	28.155	-1.896	-16.694	1.00	27.21
ATOM	11678	N	LYS	1731	26.565	-3.362	-16.112	1.00	25.31
ATOM	11679	CA	LYS	1731	25.951	-3.348	-17.417	1.00	26.32
ATOM	11680	CB	LYS	1731	26.419	-4.550	-18.141	1.00	27.13
ATOM	11681	CG	LYS	1731	25.728	-4.683	-19.587	1.00	29.75
ATOM	11682	CD	LYS	1731	26.304	-5.843	-20.115	1.00	31.99
ATOM	11683	CE	LYS	1731	25.551	-6.672	-21.667	1.00	32.08
ATOM	11684	NE	LYS	1731	26.157	-7.215	-22.417	1.00	34.11
ATOM	11685	C	LYS	1731	24.431	-3.361	-17.307	1.00	25.48
ATOM	11686	O	LYS	1731	23.868	-4.094	-16.498	1.00	24.67
ATOM	11687	N	ASN	1732	23.779	-2.534	-18.113	1.00	24.60
ATOM	11688	CA	ASN	1732	22.329	-2.450	-18.112	1.00	24.54
ATOM	11689	CB	ASN	1732	21.887	-1.655	-18.565	1.00	23.33
ATOM	11690	CG	ASN	1732	20.373	-0.911	-18.640	1.00	21.67
ATOM	11691	CD1	ASN	1732	19.637	-1.889	-18.165	1.00	19.03
ATOM	11692	CD2	ASN	1732	19.367	0.326	-18.804	1.00	23.80
ATOM	11693	CEN	ASN	1732	21.787	-3.508	-19.608	1.00	25.76
ATOM	11694	O	ASN	1732	21.777	-3.102	-20.133	1.00	25.61
ATOM	11695	N	PHE	1733	21.744	-4.637	-18.510	1.00	25.90
ATOM	11696	CA	PHE	1733	20.711	-5.119	-19.787	1.00	25.29
ATOM	11697	CB	PHE	1733	20.781	-7.649	-18.862	1.00	26.19
ATOM	11698	CG	PHE	1733	22.777	-7.534	-18.795	1.00	25.90
ATOM	11699	CD1	PHE	1733	22.777	-7.108	-17.795	1.00	26.97
ATOM	11700	CD2	PHE	1733	22.621	-8.353	-19.137	1.00	26.66
ATOM	11701	CE1	PHE	1733	24.191	-7.510	-16.909	1.00	25.54
ATOM	11702	CE2	PHE	1733	24.341	-8.781	-19.039	1.00	26.56
ATOM	11703	CZ	PHE	1733	24.026	-8.135	-17.195	1.00	23.21
ATOM	11704	O	PHE	1733	19.787	-5.471	-19.102	1.00	26.56
ATOM	11705	C	PHE	1733	18.907	-6.133	-20.126	1.00	32.93
ATOM	11706	N	LEU	1734	18.696	-4.531	-19.178	1.00	37.59
ATOM	11707	CA	LEU	1734	17.737	-4.212	-19.769	1.00	29.76
ATOM	11708	CB	LEU	1734	16.407	-3.401	-18.443	1.00	29.63
ATOM	11709	CG	LEU	1734	15.196	-2.972	-16.739	1.00	27.43
ATOM	11710	CD1	LEU	1734	14.347	-4.117	-19.794	1.00	29.67
ATOM	11711	CD2	LEU	1734	14.566	-3.735	-15.735	1.00	33.94
ATOM	11712	C	LEU	1734	17.166	-3.733	-20.747	1.00	32.37
ATOM	11713	O	LEU	1734	16.621	-3.718	-21.594	1.00	31.11
ATOM	11714	N	ALA	1735	18.922	-2.170	-20.155	1.00	36.48
ATOM	11715	CA	ALA	1735	18.069	-1.278	-22.011	1.00	42.29
ATOM	11716	CB	ALA	1735	19.239	-0.470	-21.639	1.00	42.63
ATOM	11717	C	ALA	1735	18.109	-2.136	-23.137	1.00	46.05
ATOM	11718	O	ALA	1735	17.139	-1.601	-24.137	1.00	46.73
ATOM	11719	N	GLU	1736	18.737	-3.717	-24.239	1.00	49.05
ATOM	11720	CA	GLU	1736	18.623	-4.125	-24.374	1.00	51.66
ATOM	11721	CB	GLU	1736	19.548	-5.751	-24.913	1.00	53.56
ATOM	11722	CG	GLU	1736	20.314	-5.411	-24.072	1.00	55.23
ATOM	11723	CD	GLU	1736	22.013	-4.944	-24.373	1.00	57.23
ATOM	11724	OE1	GLU	1736	21.340	-3.966	-23.595	1.00	58.63
ATOM	11725	OE2	GLU	1736	23.946	-5.757	-23.969	1.00	57.01
ATOM	11726	O	GLU	1736	17.546	-4.435	-24.986	1.00	52.13
ATOM	11727	C	GLU	1736	17.355	-4.751	-26.135	1.00	53.04
ATOM	11728	N	THR	1737	16.594	-4.876	-24.134	1.00	51.41
ATOM	11729	CA	THR	1737	15.228	-5.187	-24.551	1.00	49.15
ATOM	11730	CB	THR	1737	14.969	-6.699	-24.442	1.00	50.52
ATOM	11731	OG1	THR	1737	13.658	-7.002	-24.935	1.00	54.07
ATOM	11732	OG2	THR	1737	15.082	7.146	-22.993	1.00	51.44

ATOM	11733	C	THR	1733	14.392	-4.449	-23.685	1.00	47.27
ATOM	11734	C	THR	1734	14.441	-3.681	-23.514	1.00	47.44
ATOM	11735	N	GLY	1735	15.004	-5.915	-23.557	1.00	47.24
ATOM	11736	CA	GLY	1736	11.966	-4.897	-22.747	1.00	46.72
ATOM	11737	C	GLY	1737	11.296	-5.412	-21.841	1.00	47.77
ATOM	11738	O	GLY	1738	16.106	-6.314	-21.529	1.00	41.85
ATOM	11739	N	ASP	1739	12.656	-6.395	-21.908	1.00	31.61
ATOM	11740	CA	ASP	1740	11.587	-7.461	-20.545	1.00	29.13
ATOM	11741	CB	ASP	1741	11.448	-8.744	-21.358	1.00	32.58
ATOM	11742	CG	ASP	1742	10.658	-9.832	-20.689	1.00	35.23
ATOM	11743	CT1	ASP	1743	11.163	-10.195	-19.463	1.00	35.54
ATOM	11744	CT2	ASP	1744	9.667	-15.342	-21.147	1.00	29.45
ATOM	11745	C	ASP	1745	12.647	-7.688	-19.425	1.00	26.10
ATOM	11746	O	ASP	1746	12.748	-8.092	-19.691	1.00	23.19
ATOM	11747	N	ILE	1747	12.123	-7.417	-18.184	1.00	23.62
ATOM	11748	CA	ILE	1748	12.111	-7.546	-17.058	1.00	21.37
ATOM	11749	CB	ILE	1749	12.453	-7.101	-15.740	1.00	20.26
ATOM	11750	CG2	ILE	1750	13.307	-7.516	-14.541	1.00	21.30
ATOM	11751	CG1	ILE	1751	13.609	-8.584	-15.794	1.00	20.28
ATOM	11752	CD1	ILE	1752	11.517	-4.983	-14.637	1.00	21.21
ATOM	11753	C	ILE	1753	12.545	-9.049	-16.896	1.00	19.53
ATOM	11754	O	ILE	1754	14.724	-9.357	-16.663	1.00	20.00
ATOM	11755	N	ARG	1755	12.600	-9.971	-17.030	1.00	18.98
ATOM	11756	CA	ARG	1756	12.937	-11.384	-16.911	1.00	19.96
ATOM	11757	CB	ARG	1757	11.668	-12.156	-16.954	1.00	19.87
ATOM	11758	CG	ARG	1758	10.819	-12.142	-15.696	1.00	21.32
ATOM	11759	CD	ARG	1759	9.513	-12.853	-15.810	1.00	23.47
ATOM	11760	NE	ARG	1760	8.736	-12.794	-14.549	1.00	25.86
ATOM	11761	CE	ARG	1761	8.243	-11.678	-14.013	1.00	27.35
ATOM	11762	NH1	ARG	1762	8.461	-10.514	-14.627	1.00	26.85
ATOM	11763	NH2	ARG	1763	7.651	-11.516	-12.853	1.00	28.28
ATOM	11764	C	ARG	1764	13.937	-11.809	-17.984	1.00	20.67
ATOM	11765	O	ARG	1765	14.898	-12.546	-17.762	1.00	26.44
ATOM	11766	N	ALA	1766	13.733	-11.333	-19.209	1.00	18.88
ATOM	11767	CA	ALA	1767	14.637	-11.663	-20.299	1.00	19.67
ATOM	11768	CB	ALA	1768	14.106	-11.119	-21.617	1.00	17.58
ATOM	11769	C	ALA	1769	14.313	-11.057	-20.682	1.00	18.75
ATOM	11770	O	ALA	1770	13.019	-11.601	-20.381	1.00	21.64
ATOM	11771	N	ALA	1771	16.011	-9.927	-19.368	1.00	14.15
ATOM	11772	CA	ALA	1772	12.215	-9.344	-18.946	1.00	18.94
ATOM	11773	CB	ALA	1773	10.934	-7.688	-18.314	1.00	18.04
ATOM	11774	C	ALA	1774	18.635	-10.691	-17.812	1.00	13.62
ATOM	11775	O	ALA	1775	19.231	-10.194	-17.964	1.00	13.31
ATOM	11776	N	VAL	1776	12.263	-10.705	-17.010	1.00	20.08
ATOM	11777	CA	VAL	1777	12.861	-11.568	-15.962	1.00	19.96
ATOM	11778	CB	VAL	1778	12.791	-12.064	-14.967	1.00	21.45
ATOM	11779	CG1	VAL	1779	12.311	-13.148	-14.099	1.00	19.83
ATOM	11780	CG2	VAL	1780	16.429	-10.812	-14.071	1.00	13.35
ATOM	11781	C	VAL	1781	18.483	-12.283	-16.659	1.00	21.05
ATOM	11782	O	VAL	1782	18.661	-13.197	-16.326	1.00	21.11
ATOM	11783	N	VAL	1783	12.763	-13.356	-12.612	1.00	21.99
ATOM	11784	CA	VAL	1784	18.265	-14.515	-18.333	1.00	24.40
ATOM	11785	CB	VAL	1785	12.191	-15.069	-19.275	1.00	27.74
ATOM	11786	CG	VAL	1786	15.991	-15.694	-18.591	1.00	26.65
ATOM	11787	CD	VAL	1787	15.141	-16.484	-19.527	1.00	24.73
ATOM	11788	NE	VAL	1788	14.575	-15.634	-20.580	1.00	31.69
ATOM	11789	CZ	VAL	1789	14.451	-14.934	-20.456	1.00	31.26
ATOM	11790	NH1	VAL	1790	12.767	-14.957	-19.320	1.00	31.53
ATOM	11791	NH2	VAL	1791	13.024	-14.183	-21.470	1.00	31.37
ATOM	11792	C	ARG	1792	19.523	-14.161	-19.126	1.00	24.45
ATOM	11793	O	ARG	1793	20.429	-14.991	-19.283	1.00	22.74
ATOM	11794	N	GLN	1794	19.593	-12.925	-19.612	1.00	24.51
ATOM	11795	CA	GLN	1795	20.753	-12.440	-20.389	1.00	24.66
ATOM	11796	CB	GLN	1796	20.501	-11.120	-21.922	1.00	24.98
ATOM	11797	CG	GLN	1797	21.506	-10.729	-22.100	1.00	26.46
ATOM	11798	CD	GLN	1798	21.243	-9.333	-22.651	1.00	28.72
ATOM	11799	OE1	GLN	1799	20.132	-9.913	-23.066	1.00	27.11
ATOM	11800	NE2	GLN	1800	22.282	-8.596	-22.662	1.00	30.62
ATOM	11801	C	GLN	1801	21.984	-12.410	-19.491	1.00	24.23
ATOM	11802	O	GLN	1802	23.671	-12.359	-19.860	1.00	23.92
ATOM	11803	N	TRP	1747	21.800	-11.331	-18.311	1.00	21.27
ATOM	11804	CA	TRP	1747	22.883	-11.643	-17.352	1.00	22.18
ATOM	11805	CB	TRP	1747	22.363	-10.943	-16.114	1.00	21.72
ATOM	11806	CG	TRP	1747	23.266	-10.978	-14.991	1.00	20.80
ATOM	11807	CD1	TRP	1747	24.581	-10.525	-14.969	1.00	20.83
ATOM	11808	CE1	TRP	1747	25.406	-10.540	-14.844	1.00	21.19
ATOM	11809	CD2	TRP	1747	22.794	-11.446	-13.677	1.00	20.71

ATOM	11-10	CE1	TYR	1747	23.610	-11.483	-12.548	1.00	21.81
ATOM	11-11	CZ	TYR	1747	24.913	-11.011	-12.640	1.00	22.88
ATOM	11-12	OH	TYR	1747	25.730	-11.044	-11.520	1.00	22.08
ATOM	11-13	C	TYR	1747	23.417	-13.079	-16.987	1.00	21.20
ATOM	11-14	O	TYR	1747	24.615	-13.702	-16.962	1.00	21.41
ATOM	11-15	N	MET	1748	21.556	-14.019	-16.862	1.00	19.89
ATOM	11-16	CA	MET	1748	27.915	-15.770	-16.317	1.00	22.82
ATOM	11-17	CB	MET	1748	21.690	-16.205	-15.994	1.00	22.86
ATOM	11-18	CG	MET	1748	20.813	-15.673	-14.814	1.00	24.78
ATOM	11-19	CD	MET	1748	19.292	-16.477	-14.671	1.00	29.17
ATOM	11-20	CE	MET	1748	19.786	-18.614	-17.979	1.00	26.43
ATOM	11-21	C	MET	1748	23.682	-18.047	-17.412	1.00	23.62
ATOM	11-22	O	MET	1748	24.653	-16.586	-17.212	1.00	21.81
ATOM	11-23	H	ALA	1749	23.241	-15.540	-18.616	1.00	22.35
ATOM	11-24	CA	ALA	1749	21.906	-16.374	-19.838	1.00	21.87
ATOM	11-25	CB	ALA	1749	21.896	-16.218	-21.001	1.00	21.11
ATOM	11-26	C	ALA	1749	25.268	-15.766	-20.148	1.00	22.89
ATOM	11-27	O	ALA	1749	28.211	-16.439	-20.401	1.00	22.14
ATOM	11-28	H	GLU	1750	25.396	-14.446	-20.653	1.00	21.41
ATOM	11-29	CA	GLU	1750	26.671	-12.808	-20.352	1.00	21.76
ATOM	11-30	CB	GLU	1750	28.449	-12.330	-20.338	1.00	22.49
ATOM	11-31	CG	GLU	1750	28.503	-11.917	-21.613	1.00	25.73
ATOM	11-32	CD	GLU	1750	25.685	-10.499	-22.093	1.00	25.79
ATOM	11-33	OE1	GLU	1750	25.438	-9.746	-21.442	1.00	25.87
ATOM	11-34	OE2	GLU	1750	25.091	-10.140	-23.123	1.00	28.21
ATOM	11-35	C	GLU	1750	27.749	-14.014	-19.307	1.00	23.50
ATOM	11-36	O	GLU	1750	28.947	-14.115	-19.617	1.00	21.74
ATOM	11-37	N	VAL	1751	27.349	-14.789	-18.094	1.00	23.02
ATOM	11-38	CA	VAL	1751	28.317	-14.588	-17.007	1.00	23.63
ATOM	11-39	CB	VAL	1751	27.674	-14.482	-15.763	1.00	23.59
ATOM	11-40	CG1	VAL	1751	28.597	-15.124	-14.763	1.00	23.90
ATOM	11-41	CG2	VAL	1751	27.431	-15.019	-15.114	1.00	22.54
ATOM	11-42	C	VAL	1751	28.893	-11.917	-17.123	1.00	24.14
ATOM	11-43	O	VAL	1751	30.108	-16.164	-17.100	1.00	25.38
ATOM	11-44	N	GLU	1752	28.028	-16.831	-17.789	1.00	24.05
ATOM	11-45	CA	GLU	1752	28.457	-18.284	-17.784	1.00	26.81
ATOM	11-46	CB	GLU	1752	27.241	-19.136	-17.982	1.00	28.09
ATOM	11-47	CG	GLU	1752	27.611	-20.681	-17.711	1.00	30.83
ATOM	11-48	CD	GLU	1752	28.491	-21.519	-17.764	1.00	30.92
ATOM	11-49	OE1	GLU	1752	28.951	-23.773	-18.179	1.00	32.52
ATOM	11-50	OE2	GLU	1752	27.439	-21.113	-17.718	1.00	31.48
ATOM	11-51	C	GLU	1752	28.284	-18.347	-18.113	1.00	28.55
ATOM	11-52	O	GLU	1752	31.137	-19.111	-18.164	1.00	29.39
ATOM	11-53	N	LEU	1753	27.914	-17.641	-21.148	1.00	28.43
ATOM	11-54	CA	LEU	1753	28.649	-17.761	-21.413	1.00	29.68
ATOM	11-55	CB	LEU	1753	28.811	-17.013	-22.511	1.00	30.24
ATOM	11-56	CG	LEU	1753	27.137	-17.671	-21.766	1.00	30.50
ATOM	11-57	C	LEU	1753	28.481	-17.013	-21.783	1.00	30.66
ATOM	11-58	O	LEU	1753	27.481	-17.343	-21.761	1.00	29.58
ATOM	11-59	N	GLY	1754	27.017	-18.011	-21.364	1.00	28.51
ATOM	11-60	CA	GLY	1754	27.126	-18.260	-21.113	1.00	27.56
ATOM	11-61	C	GLY	1754	27.126	-18.011	-21.368	1.00	27.66
ATOM	11-62	O	GLY	1754	28.116	-18.113	-21.361	1.00	26.54
ATOM	11-63	N	VAL	1755	27.103	-18.614	-21.106	1.00	27.80
ATOM	11-64	CA	VAL	1755	28.385	-18.310	-21.302	1.00	26.68
ATOM	11-65	CB	VAL	1755	28.611	-18.111	-22.109	1.00	26.95
ATOM	11-66	CG1	VAL	1755	28.113	-17.310	-22.130	1.00	29.75
ATOM	11-67	CG2	VAL	1755	28.681	-18.510	-22.101	1.00	31.72
ATOM	11-68	C	VAL	1755	29.317	-17.210	-21.156	1.00	28.82
ATOM	11-69	O	VAL	1755	31.157	-19.013	-21.636	1.00	28.55
ATOM	11-70	N	TYR	1756	29.346	-11.483	-20.098	1.00	25.63
ATOM	11-71	CA	TYR	1756	30.233	-10.455	-19.031	1.00	25.13
ATOM	11-72	CB	TYR	1756	28.764	-10.150	-18.107	1.00	25.56
ATOM	11-73	CG	TYR	1756	28.613	-9.263	-17.657	1.00	24.46
ATOM	11-74	CD1	TYR	1756	28.862	-9.774	-17.074	1.00	24.19
ATOM	11-75	CE1	TYR	1756	28.852	-8.745	-16.093	1.00	23.87
ATOM	11-76	CD2	TYR	1756	28.336	-9.388	-16.327	1.00	24.07
ATOM	11-77	CE2	TYR	1756	28.319	-8.416	-15.338	1.00	24.15
ATOM	11-78	CZ	TYR	1756	28.533	-7.306	-15.679	1.00	24.77
ATOM	11-79	OH	TYR	1756	28.632	-6.112	-14.596	1.00	24.55
ATOM	11-80	C	TYR	1756	29.931	-10.917	-17.761	1.00	25.03
ATOM	11-81	O	TYR	1756	30.743	-12.019	-17.329	1.00	22.60
ATOM	11-82	N	PRO	1757	31.748	-10.056	-17.145	1.00	27.09
ATOM	11-83	CA	PRO	1757	32.331	-10.263	-16.307	1.00	26.60
ATOM	11-84	CB	PRO	1757	32.016	-8.608	-17.622	1.00	28.05
ATOM	11-85	CG	PRO	1757	32.530	-7.905	-16.379	1.00	29.31
ATOM	11-86	CD	PRO	1757	33.281	-9.082	-15.679	1.00	29.30

ATOM	11887	C	PRO	1757	33.631	-8.764	-18.761	1.00	30.41
ATOM	11888	C	PRO	1757	33.960	-8.523	-18.895	1.00	30.11
ATOM	11889	N	GLY	1758	33.911	-9.267	-19.617	1.00	31.43
ATOM	11890	CA	GLY	1758	33.839	-9.537	-20.739	1.00	32.15
ATOM	11891	C	GLY	1758	33.007	-8.657	-20.339	1.00	33.47
ATOM	11892	N	GLY	1758	33.072	-8.182	-19.107	1.00	35.45
ATOM	11893	N	GLU	1759	33.972	-6.477	-21.165	1.00	34.75
ATOM	11894	CA	GLU	1759	33.088	-5.589	-20.966	1.00	36.09
ATOM	11895	CB	GLU	1759	33.020	-5.598	-22.179	1.00	37.61
ATOM	11896	CG	GLU	1759	33.210	-4.611	-21.932	1.00	38.67
ATOM	11897	CD	GLU	1759	30.075	-5.093	-20.765	1.00	40.84
ATOM	11898	OE1	GLU	1759	30.868	-4.204	-20.331	1.00	43.08
ATOM	11899	OE2	GLU	1759	33.637	-6.278	-20.390	1.00	40.75
ATOM	11900	C	GLU	1759	33.665	-4.191	-20.950	1.00	38.19
ATOM	11901	O	GLU	1759	33.291	-5.546	-19.693	1.00	36.76
ATOM	11902	N	GLN	1760	33.589	-9.633	-21.163	1.00	37.77
ATOM	11903	CA	GLN	1760	33.695	-7.347	-20.867	1.00	38.97
ATOM	11904	CB	GLN	1760	33.910	-1.980	-21.809	1.00	41.14
ATOM	11905	CG	GLN	1760	34.018	-2.645	-23.180	1.00	43.73
ATOM	11906	CD	GLN	1760	33.668	-4.089	-23.154	1.00	44.67
ATOM	11907	OE1	GLN	1760	32.558	-4.404	-22.730	1.00	45.33
ATOM	11908	OE2	GLN	1760	34.503	-4.915	-23.556	1.00	45.49
ATOM	11909	C	GLU	1760	34.593	-2.215	-19.426	1.00	37.41
ATOM	11910	O	GLU	1760	34.473	-1.162	-18.873	1.00	37.07
ATOM	11911	N	HIS	1761	34.306	-3.411	-18.831	1.00	36.62
ATOM	11912	CA	HIS	1761	33.809	-3.477	-17.462	1.00	36.41
ATOM	11913	CB	HIS	1761	33.659	-4.475	-17.573	1.00	34.32
ATOM	11914	CG	HIS	1761	31.541	-4.218	-18.345	1.00	33.22
ATOM	11915	CD2	HIS	1761	31.033	-4.973	-19.346	1.00	31.25
ATOM	11916	ND1	HIS	1761	30.804	-5.073	-18.379	1.00	32.94
ATOM	11917	CE1	HIS	1761	29.890	-3.171	-19.761	1.00	32.22
ATOM	11918	NE2	HIS	1761	30.030	-4.375	-19.917	1.00	32.69
ATOM	11919	C	HIS	1761	34.908	-3.941	-16.564	1.00	37.42
ATOM	11920	O	HIS	1761	34.620	-4.310	-15.769	1.00	38.41
ATOM	11921	N	PER	1762	38.113	-3.698	-16.966	1.00	37.23
ATOM	11922	CA	PER	1762	37.277	-4.378	-16.134	1.00	37.81
ATOM	11923	CB	PER	1762	37.965	-5.177	-16.819	1.00	37.81
ATOM	11924	CG	PER	1762	37.071	-6.219	-17.141	1.00	36.80
ATOM	11925	C	PER	1762	38.309	-1.215	-13.864	1.00	38.82
ATOM	11926	O	PER	1762	38.419	-2.177	-16.641	1.00	37.88
ATOM	11927	N	PHE	1763	39.069	-3.482	-14.802	1.00	40.54
ATOM	11928	CA	PHE	1763	40.111	-2.341	-14.858	1.00	43.35
ATOM	11929	CB	PHE	1763	38.979	-1.867	-13.127	1.00	43.18
ATOM	11930	CG	PHE	1763	38.661	-1.112	-12.840	1.00	45.64
ATOM	11931	CD1	PHE	1763	39.477	-1.742	-12.481	1.00	46.71
ATOM	11932	CD2	PHE	1763	38.648	-0.179	-13.113	1.00	46.12
ATOM	11933	CE1	PHE	1763	38.290	-1.078	-12.705	1.00	46.58
ATOM	11934	CE2	PHE	1763	37.477	-1.074	-12.873	1.00	46.12
ATOM	11935	CZ	PHE	1763	38.129	-0.173	-11.982	1.00	46.47
ATOM	11936	N	PHE	1763	41.471	-1.110	-14.567	1.00	45.81
ATOM	11937	O	PHE	1763	41.568	-4.775	-14.141	1.00	45.13
ATOM	11938	N	PIS	1764	41.591	-1.778	-14.463	1.00	47.11
ATOM	11939	CA	PIS	1764	43.897	-2.714	-14.331	1.00	48.77
ATOM	11940	CB	PIS	1764	44.383	-2.894	-16.107	1.00	48.11
ATOM	11941	CG	PIS	1764	43.713	-1.817	-16.099	1.00	47.37
ATOM	11942	CD	PIS	1764	41.461	-1.717	-17.778	1.00	47.14
ATOM	11943	ND1	PIS	1764	43.933	-3.166	-16.681	1.00	48.69
ATOM	11944	OE1	PIS	1764	43.218	-1.877	-17.157	1.00	47.18
ATOM	11945	NE1	PIS	1764	42.547	-0.976	-16.190	1.00	46.67
ATOM	11946	C	PIS	1764	43.848	-1.389	-15.693	1.00	49.73
ATOM	11947	O	PIS	1764	45.534	-2.589	-12.639	1.00	50.49
ATOM	11948	OX1	PIS	1764	44.896	-0.357	-13.687	1.00	51.77
ATOM	11949	CI	EPL	1765	27.748	-4.239	-4.469	1.00	7.13
ATOM	11950	C2	EPL	1765	27.949	-5.559	-3.746	1.00	76.67
ATOM	11951	C3	EPL	1765	27.194	-6.630	-4.447	1.00	76.77
ATOM	11952	CI	EPL	1765	29.442	-5.368	-3.931	1.00	58.31
ATOM	11953	CI	EPL	1765	30.255	-4.335	-3.190	1.00	40.50
ATOM	11954	C5	EPL	1765	27.511	-5.432	-2.165	1.00	86.08
ATOM	11955	C6	EPL	1765	28.306	-5.650	-1.772	1.00	86.16
ATOM	11956	CG	EPL	1765	26.106	-5.137	-1.185	1.00	83.38
ATOM	11957	CG	EPL	1765	25.273	-4.814	-2.736	1.00	85.07
ATOM	11958	O4	EPL	1765	25.770	-4.927	-0.190	1.00	82.90
ATOM	11959	CB	MET	1801	10.432	-42.440	39.164	1.00	62.99
ATOM	11960	CG	MET	1801	11.787	-41.787	39.475	1.00	64.83
ATOM	11961	SD	MET	1801	13.950	-42.846	40.838	1.00	67.79
ATOM	11962	CE	MET	1801	12.685	-42.311	42.031	1.00	67.34
ATOM	11963	C	MET	1801	8.891	-40.780	40.307	1.00	59.13

ATOM	11964	N	MET	1801	37.715	-40.732	40.655	1.00	59.38
ATOM	11965	N	MET	1801	37.705	-40.746	37.968	1.00	61.5
ATOM	11966	CA	MET	1801	37.294	-41.449	38.998	1.00	60.88
ATOM	11967	N	LYS	1802	38.874	-40.256	41.033	1.00	56.71
ATOM	11968	CA	LYS	1802	38.569	-40.612	41.311	1.00	53.19
ATOM	11969	CB	LYS	1802	38.861	-40.614	41.447	1.00	54.61
ATOM	11970	CG	LYS	1802	38.847	-41.241	41.783	1.00	55.72
ATOM	11971	CD	LYS	1802	38.552	-41.813	41.508	1.00	56.41
ATOM	11972	CE	LYS	1802	38.364	-41.678	41.059	1.00	56.54
ATOM	11973	NZ	LYS	1802	38.851	-41.687	41.446	1.00	55.32
ATOM	11974	C	LYS	1802	10.337	-38.361	41.596	1.00	49.88
ATOM	11975	N	LYS	1802	10.760	-38.088	41.759	1.00	50.44
ATOM	11976	N	PRO	1803	10.811	-38.590	41.560	1.00	45.52
ATOM	11977	CD	PRO	1803	11.320	-38.125	41.816	1.00	44.97
ATOM	11978	CA	PRO	1803	10.530	-37.761	40.132	1.00	41.04
ATOM	11979	CB	PRO	1803	10.375	-38.554	39.651	1.00	42.80
ATOM	11980	CG	PRO	1803	11.465	-38.680	40.414	1.00	42.66
ATOM	11981	C	PRO	1803	11.574	-38.481	39.414	1.00	38.65
ATOM	11982	C	PRO	1803	11.551	-38.591	40.056	1.00	34.30
ATOM	11983	N	THR	1804	11.321	-38.111	38.084	1.00	39.62
ATOM	11984	CA	THR	1804	12.166	-38.115	37.783	1.00	28.37
ATOM	11985	CB	THR	1804	12.172	-38.455	37.853	1.00	21.88
ATOM	11986	CG1	THR	1804	11.046	-40.373	37.962	1.00	24.56
ATOM	11987	CG2	THR	1804	13.376	-40.073	38.021	1.00	21.11
ATOM	11988	C	THR	1804	13.880	-38.231	37.715	1.00	24.43
ATOM	11989	O	THR	1804	13.752	-37.016	36.888	1.00	21.49
ATOM	11990	N	THR	1805	15.055	-38.769	37.524	1.00	23.84
ATOM	11991	CA	THR	1805	16.178	-37.975	37.516	1.00	27.31
ATOM	11992	CB	THR	1805	16.829	-37.860	37.940	1.00	23.39
ATOM	11993	CG1	THR	1805	17.286	-38.061	38.423	1.00	25.31
ATOM	11994	CG2	THR	1805	15.758	-37.167	38.866	1.00	23.36
ATOM	11995	C	THR	1805	17.379	-38.614	36.882	1.00	21.44
ATOM	11996	O	THR	1805	17.268	-37.761	36.147	1.00	19.91
ATOM	11997	N	ILE	1806	18.153	-38.863	36.471	1.00	19.31
ATOM	11998	CA	ILE	1806	19.574	-38.376	36.706	1.00	20.35
ATOM	11999	CB	ILE	1806	20.596	-38.129	36.599	1.00	23.61
ATOM	12000	CG2	ILE	1806	21.406	-38.134	34.889	1.00	21.30
ATOM	12001	CG1	ILE	1806	20.133	-38.371	37.016	1.00	23.31
ATOM	12002	CD1	ILE	1806	21.075	-34.458	37.129	1.00	27.67
ATOM	12003	C	ILE	1806	20.108	-38.371	36.415	1.00	19.38
ATOM	12004	O	ILE	1806	21.611	-34.121	37.780	1.00	17.17
ATOM	12005	N	SER	1807	19.378	-40.671	37.336	1.00	19.33
ATOM	12006	CA	SER	1807	19.355	-40.738	38.365	1.00	26.30
ATOM	12007	CB	SER	1807	20.201	-40.678	40.060	1.00	23.31
ATOM	12008	CG	SER	1807	20.671	-39.418	40.459	1.00	29.05
ATOM	12009	C	SER	1807	19.777	-40.330	38.062	1.00	19.39
ATOM	12010	O	SER	1807	20.408	-41.118	38.010	1.00	18.78
ATOM	12011	N	LEU	1808	18.149	-41.101	38.741	1.00	19.38
ATOM	12012	CA	LEU	1808	17.733	-41.179	38.317	1.00	19.30
ATOM	12013	CB	LEU	1808	18.348	-41.133	38.364	1.00	21.37
ATOM	12014	CG	LEU	1808	18.135	-41.161	38.321	1.00	23.34
ATOM	12015	CD1	LEU	1808	18.896	-41.138	38.139	1.00	21.31
ATOM	12016	CD2	LEU	1808	18.658	-41.137	38.343	1.00	23.35
ATOM	12017	C	LEU	1808	18.118	-41.118	38.384	1.00	19.37
ATOM	12018	O	LEU	1808	18.194	-41.134	38.797	1.00	13.37
ATOM	12019	N	LEU	1809	18.638	-41.131	38.347	1.00	19.35
ATOM	12020	CA	LEU	1809	19.006	-41.133	38.340	1.00	19.35
ATOM	12021	CB	LEU	1809	19.110	-41.133	38.757	1.00	13.38
ATOM	12022	CG	LEU	1809	17.311	-41.133	38.757	1.00	13.36
ATOM	12023	CD1	LEU	1809	18.026	-41.133	38.310	1.00	13.38
ATOM	12024	CD2	LEU	1809	16.672	-41.133	38.202	1.00	13.36
ATOM	12025	C	LEU	1809	20.363	-41.133	38.900	1.00	13.35
ATOM	12026	O	LEU	1809	20.643	-41.133	38.267	1.00	13.33
ATOM	12027	N	GLN	1810	21.207	-41.133	38.752	1.00	13.32
ATOM	12028	CA	GLN	1810	22.526	-41.133	38.958	1.00	13.34
ATOM	12029	CB	GLN	1810	23.325	-41.133	38.957	1.00	13.32
ATOM	12030	CG	GLN	1810	24.818	-41.133	38.021	1.00	21.39
ATOM	12031	CD	GLN	1810	25.527	-41.133	38.676	1.00	21.35
ATOM	12032	OE1	GLN	1810	25.549	-41.133	38.869	1.00	23.32
ATOM	12033	NE2	GLN	1810	26.100	-41.133	38.430	1.00	23.30
ATOM	12034	C	GLN	1810	22.345	-41.133	38.520	1.00	20.30
ATOM	12035	O	GLN	1810	23.081	-41.133	38.132	1.00	19.37
ATOM	12036	N	LYS	1811	21.356	-41.133	38.391	1.00	20.73
ATOM	12037	CA	LYS	1811	21.088	-41.133	38.952	1.00	22.34
ATOM	12038	CB	LYS	1811	19.960	-41.133	37.989	1.00	25.30
ATOM	12039	CG	LYS	1811	19.688	-41.133	38.647	1.00	30.12
ATOM	12040	CD	LYS	1811	18.259	-42.325	39.172	1.00	34.37

ATOM	12041	FE	LYS	1811	17.369	-47.427	47.369	1.00	37.00
ATOM	12042	NZ	LYS	1811	16.571	-47.646	46.466	1.00	38.37
ATOM	12043	C	LYS	1811	20.127	-47.930	45.822	1.00	32.37
ATOM	12044	O	LYS	1811	21.136	-48.665	45.551	1.00	22.10
ATOM	12045	N	TYR	1812	19.864	-47.327	44.348	1.00	26.19
ATOM	12046	CA	TYR	1812	19.322	-48.108	43.806	1.00	19.41
ATOM	12047	CB	TYR	1812	18.394	-47.151	42.929	1.00	18.89
ATOM	12048	CG	TYR	1812	17.008	-47.643	43.129	1.00	27.69
ATOM	12049	CD1	TYR	1812	16.100	-46.161	42.941	1.00	11.91
ATOM	12050	CE1	TYR	1812	14.810	-46.911	43.456	1.00	18.13
ATOM	12051	CD2	TYR	1812	16.590	-47.769	44.650	1.00	21.69
ATOM	12052	CE2	TYR	1812	15.827	-47.613	43.183	1.00	16.81
ATOM	12053	CE	TYR	1812	14.424	-46.743	43.568	1.00	27.80
ATOM	12054	OH	TYR	1812	17.117	-46.626	45.067	1.00	32.95
ATOM	12055	C	TYR	1812	16.438	-48.820	42.860	1.00	18.49
ATOM	12056	O	TYR	1812	20.478	-49.784	41.808	1.00	13.51
ATOM	12057	N	LYS	1812	21.436	-47.763	42.739	1.00	18.27
ATOM	12058	CA	LYS	1812	21.611	-48.177	41.650	1.00	11.98
ATOM	12059	CB	LYS	1812	21.577	-46.993	41.679	1.00	17.16
ATOM	12060	CG	LYS	1812	24.817	-47.394	40.524	1.00	14.61
ATOM	12061	CD	LYS	1812	25.543	-46.214	40.188	1.00	14.45
ATOM	12062	CE	LYS	1812	26.733	-46.661	29.124	1.00	13.10
ATOM	12063	NZ	LYS	1812	26.844	-46.978	28.192	1.00	12.51
ATOM	12064	C	LYS	1812	23.738	-49.784	32.688	1.00	19.88
ATOM	12065	O	LYS	1812	27.840	-50.247	32.076	1.00	19.85
ATOM	12066	N	GLN	1814	21.111	-49.144	34.001	1.00	23.03
ATOM	12067	CA	GLN	1814	24.238	-50.156	34.785	1.00	26.55
ATOM	12068	CB	GLN	1814	24.339	-49.695	36.129	1.00	20.23
ATOM	12069	CG	GLN	1814	25.221	-48.461	36.580	1.00	18.91
ATOM	12070	CD	GLN	1814	25.444	-48.052	37.827	1.00	40.38
ATOM	12071	OE1	GLN	1814	25.625	-48.843	38.155	1.00	43.65
ATOM	12072	NE2	GLN	1814	25.032	-46.911	38.142	1.00	43.19
ATOM	12073	C	GLN	1814	23.431	-51.480	34.545	1.00	26.92
ATOM	12074	O	GLN	1814	24.036	-52.551	34.897	1.00	19.94
ATOM	12075	N	GLN	1814	22.135	-51.402	34.756	1.00	16.78
ATOM	12076	CA	GLN	1814	21.313	-52.595	34.720	1.00	16.99
ATOM	12077	CB	GLN	1814	19.947	-52.290	35.142	1.00	19.31
ATOM	12078	CG	GLN	1814	20.923	-51.678	36.135	1.00	16.92
ATOM	12079	CD	GLN	1814	18.652	-51.375	37.251	1.00	38.20
ATOM	12080	OE1	GLN	1814	17.878	-50.624	36.894	1.00	40.51
ATOM	12081	OE2	GLN	1814	18.552	-51.866	36.424	1.00	42.17
ATOM	12082	C	GLN	1814	21.118	-53.075	33.185	1.00	24.89
ATOM	12083	O	GLN	1814	22.503	-54.111	33.648	1.00	14.58
ATOM	12084	N	LYS	1816	21.651	-52.318	32.131	1.00	23.60
ATOM	12085	CA	LYS	1816	21.516	-52.652	30.920	1.00	24.10
ATOM	12086	CB	LYS	1816	22.168	-54.311	30.819	1.00	27.06
ATOM	12087	CG	LYS	1816	23.690	-53.956	30.494	1.00	29.88
ATOM	12088	CD	LYS	1816	24.166	-52.132	31.880	1.00	32.11
ATOM	12089	CE	LYS	1816	25.622	-52.624	31.120	1.00	34.77
ATOM	12090	NZ	LYS	1816	26.378	-54.205	29.060	1.00	36.10
ATOM	12091	C	LYS	1816	22.348	-52.451	32.120	1.00	23.58
ATOM	12092	O	LYS	1816	19.625	-53.456	29.836	1.00	12.99
ATOM	12093	N	LYS	1817	19.258	-51.767	31.181	1.00	22.19
ATOM	12094	CA	LYS	1817	19.847	-51.449	30.737	1.00	13.64
ATOM	12095	CB	LYS	1817	18.981	-51.432	31.874	1.00	23.35
ATOM	12096	CG	LYS	1817	19.498	-51.224	31.836	1.00	26.44
ATOM	12097	CD	LYS	1817	14.687	-50.176	31.121	1.00	32.13
ATOM	12098	CE	LYS	1817	14.649	-51.681	33.080	1.00	33.21
ATOM	12099	NZ	LYS	1817	13.641	-51.113	35.191	1.00	36.99
ATOM	12100	C	LYS	1817	17.653	-52.461	32.096	1.00	19.27
ATOM	12101	O	LYS	1817	17.761	-49.312	30.112	1.00	15.14
ATOM	12102	N	ARG	1818	17.373	-50.750	28.623	1.00	17.56
ATOM	12103	CA	ARG	1818	17.165	-49.721	27.115	1.00	17.68
ATOM	12104	CB	ARG	1818	17.122	-50.354	26.121	1.00	17.01
ATOM	12105	CG	ARG	1818	18.510	-50.956	25.563	1.00	20.64
ATOM	12106	CD	ARG	1818	18.534	-51.441	24.331	1.00	26.16
ATOM	12107	NE	ARG	1818	14.503	-52.846	24.671	1.00	27.97
ATOM	12108	CZ	ARG	1818	14.504	-53.847	24.333	1.00	30.30
ATOM	12109	NH1	ARG	1818	18.942	-53.611	22.602	1.00	31.08
ATOM	12110	NH2	ARG	1818	18.266	-55.091	24.223	1.00	30.79
ATOM	12111	C	ARG	1818	15.898	-48.961	22.600	1.00	16.78
ATOM	12112	O	ARG	1818	14.858	-49.522	28.107	1.00	17.29
ATOM	12113	N	PHE	1819	15.986	-47.615	27.695	1.00	15.71
ATOM	12114	CA	PHE	1819	14.849	-46.764	28.605	1.00	13.45
ATOM	12115	CB	PHE	1819	15.167	-45.940	29.258	1.00	12.38
ATOM	12116	CG	PHE	1819	14.395	-45.082	29.135	1.00	19.54
ATOM	12117	CD1	PHE	1819	16.307	-43.780	28.653	1.00	19.46

ATOM	12118	C	PHE	1-19	17.647	-43.576	28.444	1.00	11.28
ATOM	12119	HE	PHE	1-19	17.444	-43.580	28.546	1.00	10.91
ATOM	12120	HE	PHE	1-19	18.779	-44.787	28.384	1.00	12.16
ATOM	12121	CH	PHE	1-19	18.584	-44.484	28.904	1.00	10.90
ATOM	12122	C	PHE	1-19	14.449	-43.848	28.877	1.00	12.26
ATOM	12123	O	PHE	1-19	15.114	-46.404	26.057	1.00	11.06
ATOM	12124	N	ALA	1-20	15.119	-43.872	28.850	1.00	11.70
ATOM	12125	CA	ALA	1-20	17.52	-44.715	29.838	1.00	11.88
ATOM	12126	CP	ALA	1-20	11.114	-45.202	25.476	1.00	10.91
ATOM	12127	C	ALA	1-20	17.464	-44.256	28.162	1.00	11.52
ATOM	12128	O	ALA	1-20	11.287	-42.949	27.411	1.00	13.43
ATOM	12129	N	THR	1-21	11.559	-43.371	25.172	1.00	12.20
ATOM	12130	CA	THR	1-21	12.552	-40.922	25.481	1.00	11.82
ATOM	12131	CP	THR	1-21	13.977	-40.131	25.103	1.00	11.47
ATOM	12132	CH	THR	1-21	14.756	-40.165	26.105	1.00	13.26
ATOM	12133	CH	THR	1-21	13.911	-38.814	25.131	1.00	23.24
ATOM	12134	C	THR	1-21	11.706	-46.159	24.811	1.00	9.33
ATOM	12135	O	THR	1-21	11.554	-41.075	22.312	1.00	12.52
ATOM	12136	N	ILE	1-22	11.187	-39.161	24.465	1.00	10.78
ATOM	12137	CA	ILE	1-22	10.318	-38.690	23.885	1.00	9.32
ATOM	12138	CB	ILE	1-22	8.89	-35.136	23.134	1.00	10.75
ATOM	12139	CH	ILE	1-22	8.162	-38.872	24.116	1.00	10.54
ATOM	12140	CG1	ILE	1-22	8.101	-39.050	22.122	1.00	13.24
ATOM	12141	CH	ILE	1-22	6.801	-39.836	22.147	1.00	14.23
ATOM	12142	C	ILE	1-22	10.237	-37.169	23.418	1.00	12.04
ATOM	12143	O	ILE	1-22	10.473	-36.152	24.436	1.00	9.11
ATOM	12144	N	PHE	1-23	9.926	-36.165	22.869	1.00	10.88
ATOM	12145	CA	PHE	1-23	9.778	-35.119	22.211	1.00	12.73
ATOM	12146	CB	PHE	1-23	9.99	-34.870	20.266	1.00	11.54
ATOM	12147	CG1	PHE	1-23	9.001	-35.126	19.889	1.00	12.04
ATOM	12148	CG2	PHE	1-23	11.597	-34.336	20.159	1.00	14.24
ATOM	12149	C	PHE	1-23	8.359	-34.385	22.881	1.00	12.09
ATOM	12150	O	THR	1-23	7.436	-35.231	21.846	1.00	11.41
ATOM	12151	N	ALA	1-24	8.107	-33.539	23.237	1.00	10.84
ATOM	12152	CA	ALA	1-24	6.917	-33.134	21.178	1.00	10.40
ATOM	12153	CP	ALA	1-24	6.659	-33.673	20.173	1.00	9.05
ATOM	12154	C	ALA	1-24	6.973	-31.604	20.276	1.00	10.44
ATOM	12155	C	ALA	1-24	6.817	-31.021	24.137	1.00	9.73
ATOM	12156	N	TYR	1-25	5.867	-30.847	22.445	1.00	9.09
ATOM	12157	CA	TYR	1-25	5.863	-29.433	21.468	1.00	10.72
ATOM	12158	CB	TYR	1-25	6.001	-29.155	21.560	1.00	9.65
ATOM	12159	CG	TYR	1-25	7.028	-29.145	21.179	1.00	10.96
ATOM	12160	CH	TYR	1-25	6.840	-30.836	20.118	1.00	13.14
ATOM	12161	CH	TYR	1-25	7.578	-31.379	19.468	1.00	13.61
ATOM	12162	CH	TYR	1-25	8.188	-29.436	21.121	1.00	13.15
ATOM	12163	CH	TYR	1-25	9.341	-30.180	20.668	1.00	10.62
ATOM	12164	CH	TYR	1-25	8.918	-31.116	19.842	1.00	13.90
ATOM	12165	CH	TYR	1-25	9.843	-31.782	18.878	1.00	13.92
ATOM	12166	C	TYR	1-25	4.813	-28.884	23.164	1.00	11.54
ATOM	12167	O	TYR	1-25	4.422	-27.843	22.166	1.00	13.75
ATOM	12168	N	ASH	1-26	-0.759	-29.866	24.137	1.00	9.46
ATOM	12169	CA	ASH	1-26	1.731	-29.141	25.170	1.00	12.89
ATOM	12170	CB	ASH	1-26	1.456	-29.020	24.884	1.00	10.93
ATOM	12171	CH	ASH	1-26	1.499	-30.137	21.171	1.00	13.46
ATOM	12172	CH	ASH	1-26	0.351	-31.125	24.118	1.00	12.07
ATOM	12173	CH	ASH	1-26	1.569	-30.884	21.178	1.00	14.37
ATOM	12174	C	ASH	1-26	1.638	-30.697	28.113	1.00	11.01
ATOM	12175	O	ASH	1-26	2.516	-31.120	26.549	1.00	12.66
ATOM	12176	N	TYR	1-27	1.677	-29.466	25.166	1.00	11.19
ATOM	12177	CA	TYR	1-27	0.497	-30.145	28.112	1.00	11.45
ATOM	12178	CB	TYR	1-27	-0.518	-29.112	28.159	1.00	12.27
ATOM	12179	CG	TYR	1-27	-1.359	-29.886	29.157	1.00	12.69
ATOM	12180	CH	TYR	1-27	-0.913	-29.940	31.153	1.00	14.42
ATOM	12181	CH	TYR	1-27	-1.699	-30.533	32.134	1.00	15.64
ATOM	12182	CH	TYR	1-27	-2.610	-30.493	29.132	1.00	14.53
ATOM	12183	CH	TYR	1-27	-3.401	-31.015	30.133	1.00	15.16
ATOM	12184	CH	TYR	1-27	-3.931	-31.151	31.137	1.00	14.99
ATOM	12185	CH	TYR	1-27	-3.713	-31.636	32.161	1.00	16.74
ATOM	12186	C	TYR	1-27	-0.194	-31.433	27.131	1.00	11.79
ATOM	12187	O	TYR	1-27	0.010	-32.474	28.162	1.00	10.89
ATOM	12188	N	SEP	1-28	-1.026	-31.506	26.845	1.00	9.98
ATOM	12189	CA	SEP	1-28	-1.779	-32.713	26.553	1.00	12.49
ATOM	12190	CB	SEP	1-28	-2.744	-32.415	25.405	1.00	11.71
ATOM	12191	CG	SEP	1-28	-3.653	-31.420	25.819	1.00	16.55
ATOM	12192	C	SEP	1-28	-0.943	-33.940	26.240	1.00	11.86
ATOM	12193	O	SEP	1-28	-1.210	-35.027	26.765	1.00	9.82
ATOM	12194	N	PHE	1-29	0.075	-33.780	25.401	1.00	11.47

ATOM	12195	CA	PHE	1829	0.901	-34.918	23.732	1.00	11.15
ATOM	12196	CB	PHE	1829	1.675	-34.676	23.730	1.00	10.81
ATOM	12197	CG	PHE	1829	0.831	-34.948	22.575	1.00	10.15
ATOM	12198	CD	PHE	1829	0.159	-34.893	21.677	1.00	10.05
ATOM	12199	CE	PHE	1829	0.466	-34.256	22.110	1.00	9.31
ATOM	12200	CE1	PHE	1829	-0.470	-34.134	20.713	1.00	9.40
ATOM	12201	CE2	PHE	1829	-0.259	-34.517	21.312	1.00	10.09
ATOM	12202	CE3	PHE	1829	-0.181	-34.451	20.777	1.00	9.43
ATOM	12203	C	PHE	1829	1.882	-34.324	20.131	2.00	11.61
ATOM	12204	O	PHE	1829	2.181	-34.391	26.511	1.00	9.96
ATOM	12205	N	ALA	1830	0.586	-34.160	26.839	1.00	6.95
ATOM	12206	CA	ALA	1830	3.056	-34.413	28.307	1.00	11.66
ATOM	12207	CB	ALA	1830	3.910	-33.178	27.683	1.00	13.78
ATOM	12208	C	ALA	1830	3.585	-33.184	28.711	1.30	12.33
ATOM	12209	O	ALA	1830	3.118	-33.132	28.779	1.30	12.33
ATOM	12210	N	LYS	1831	1.260	-34.863	29.236	1.00	10.33
ATOM	12211	CA	LYS	1831	0.435	-35.645	29.234	1.00	12.92
ATOM	12212	CB	LYS	1831	-0.884	-34.986	29.112	1.00	15.79
ATOM	12213	CG	LYS	1831	-1.882	-34.160	21.143	1.00	19.79
ATOM	12214	CD	LYS	1831	-1.386	-35.636	22.187	1.00	26.44
ATOM	12215	CE	LYS	1831	-2.551	-35.151	23.817	1.00	30.83
ATOM	12216	NZ	LYS	1831	-1.543	-36.196	23.410	1.00	32.55
ATOM	12217	C	LYS	1831	0.131	-35.701	23.666	1.00	10.03
ATOM	12218	O	LYS	1831	0.282	-38.026	21.678	1.00	16.29
ATOM	12219	N	LEU	1832	-0.118	-35.111	23.112	1.00	9.47
ATOM	12220	CA	LEU	1832	-0.449	-36.329	23.017	1.00	10.13
ATOM	12221	CB	LEU	1832	-0.811	-36.197	22.132	1.00	9.08
ATOM	12222	CG	LEU	1832	-1.335	-35.651	23.819	1.00	7.77
ATOM	12223	CD	LEU	1832	-2.185	-35.112	24.619	1.00	10.75
ATOM	12224	CE	LEU	1832	-0.185	-40.548	23.110	1.00	9.84
ATOM	12225	C	LEU	1832	0.584	-39.434	23.115	1.00	11.17
ATOM	12226	O	LEU	1832	0.682	-40.583	23.610	1.00	10.60
ATOM	12227	N	PHE	1833	1.948	-35.407	22.884	1.00	9.21
ATOM	12228	CA	PHE	1833	3.175	-35.690	23.011	1.00	10.72
ATOM	12229	CB	PHE	1833	4.385	-34.078	22.483	1.00	12.12
ATOM	12230	CG	PHE	1833	1.231	-35.154	23.883	1.00	10.13
ATOM	12231	CD	PHE	1833	0.572	-35.731	22.119	2.00	8.69
ATOM	12232	CE	PHE	1833	1.888	-34.127	23.483	1.00	11.33
ATOM	12233	CE1	PHE	1833	1.383	-33.889	21.738	1.00	9.83
ATOM	12234	CE2	PHE	1833	1.178	-33.734	21.118	1.00	9.93
ATOM	12235	CE3	PHE	1833	1.011	-33.760	21.111	1.00	8.51
ATOM	12236	C	PHE	1833	3.488	-34.545	23.486	1.00	11.08
ATOM	12237	O	PHE	1833	3.637	-41.204	23.813	1.00	11.34
ATOM	12238	N	ALA	1834	0.582	-33.345	21.233	1.00	11.86
ATOM	12239	CA	ALA	1834	2.631	-33.385	21.732	1.00	12.53
ATOM	12240	CB	ALA	1834	3.480	-32.673	22.150	1.00	15.69
ATOM	12241	C	ALA	1834	2.632	-34.839	21.137	1.00	13.96
ATOM	12242	O	ALA	1834	3.116	-41.266	23.110	1.00	13.66
ATOM	12243	N	ASP	1835	1.419	-34.712	21.881	1.00	13.27
ATOM	12244	CA	ASP	1835	0.488	-41.394	21.301	1.00	14.53
ATOM	12245	CB	ASP	1835	-0.683	-41.315	22.113	1.00	20.18
ATOM	12246	CG	ASP	1835	-1.435	-40.671	21.877	1.00	23.27
ATOM	12247	CD	ASP	1835	-0.886	-40.315	23.813	1.00	22.13
ATOM	12248	CE	ASP	1835	-2.435	-39.396	22.117	1.00	20.13
ATOM	12249	C	ASP	1835	0.783	-41.317	22.633	1.00	14.81
ATOM	12250	O	ASP	1835	0.137	-40.671	21.612	1.00	13.88
ATOM	12251	N	GLU	1836	1.551	-44.391	21.717	1.00	11.57
ATOM	12252	CA	GLU	1836	1.665	-44.186	21.517	1.00	14.86
ATOM	12253	CB	GLU	1836	1.666	-44.189	23.013	1.00	13.08
ATOM	12254	CG	GLU	1836	0.634	-44.345	23.513	1.00	13.80
ATOM	12255	CD	GLU	1836	-0.488	-44.915	23.605	1.00	14.45
ATOM	12256	CE	GLU	1836	-0.711	-44.126	23.116	1.00	13.58
ATOM	12257	CE2	GLU	1836	-1.558	-44.095	23.114	1.00	13.16
ATOM	12258	C	GLU	1836	3.236	-44.686	21.113	1.00	13.46
ATOM	12259	O	GLU	1836	3.632	-45.344	21.110	1.00	14.15
ATOM	12260	N	GLY	1837	0.962	-43.710	21.712	1.00	13.87
ATOM	12261	CA	GLY	1837	0.122	-44.112	21.516	1.00	13.92
ATOM	12262	C	GLY	1837	0.442	-43.695	21.311	1.00	13.40
ATOM	12263	O	GLY	1837	7.587	-44.111	21.711	1.00	13.75
ATOM	12264	N	LEU	1838	0.137	-42.879	20.486	1.00	13.02
ATOM	12265	CA	LEU	1838	7.263	-42.384	29.518	1.00	14.57
ATOM	12266	CB	LEU	1838	6.763	-42.175	29.118	1.00	13.28
ATOM	12267	C	LEU	1838	7.637	-42.371	27.005	1.00	21.26
ATOM	12268	CD	LEU	1838	6.977	-41.842	25.714	1.00	13.89
ATOM	12269	CE	LEU	1838	3.983	-41.721	27.215	1.00	20.44
ATOM	12270	O	LEU	1838	7.642	-41.071	30.267	1.00	17.12
ATOM	12271	O	LEU	1838	7.054	-40.024	29.967	1.00	16.93

ATOM	12272	N	ASN	1339	8.632	-41.160	31.152	1.00	19.21
ATOM	12273	CA	ASN	1339	9.066	-40.046	31.901	1.00	17.01
ATOM	12274	CB	ASN	1339	9.234	-40.551	32.433	1.00	20.82
ATOM	12275	CG	ASN	1339	8.011	-41.318	31.367	1.00	21.22
ATOM	12276	CD1	ASN	1339	6.862	-40.895	31.732	1.00	20.71
ATOM	12277	ND1	ASN	1339	8.343	-42.352	31.517	1.00	26.33
ATOM	12278	O	ASN	1339	10.313	-39.176	31.507	1.00	19.33
ATOM	12279	O	ASN	1339	10.206	-38.62	31.367	1.00	19.31
ATOM	12280	N	VAL	1340	13.664	-39.34	36.236	1.00	14.35
ATOM	12281	CA	VAL	1340	11.341	-38.007	36.869	1.00	13.33
ATOM	12282	CB	VAL	1340	13.017	-39.317	37.541	1.00	18.11
ATOM	12283	CG1	VAL	1340	11.321	-38.661	36.113	1.00	13.43
ATOM	12284	CG2	VAL	1340	13.348	-40.36	36.712	1.00	16.08
ATOM	12285	C	VAL	1340	11.499	-39.864	36.263	1.00	13.96
ATOM	12286	O	VAL	1340	11.116	-38.806	36.567	1.00	13.12
ATOM	12287	N	MET	1341	11.367	-38.362	36.366	1.00	18.19
ATOM	12288	CA	MET	1341	10.993	-37.783	36.343	1.00	18.11
ATOM	12289	CB	MET	1341	8.512	-38.106	36.367	1.00	17.33
ATOM	12290	CG	MET	1341	8.452	-38.323	36.336	1.00	17.69
ATOM	12291	SD	MET	1341	8.763	-38.646	36.521	1.00	18.38
ATOM	12292	CE	MET	1341	6.613	-38.753	36.363	1.00	16.33
ATOM	12293	C	MET	1341	11.364	-39.343	36.136	1.00	16.13
ATOM	12294	O	MET	1341	12.468	-38.366	36.362	1.00	16.35
ATOM	12295	N	LEU	1342	11.969	-39.356	36.336	1.00	18.33
ATOM	12296	CA	LEU	1342	12.838	-38.354	36.264	1.00	11.33
ATOM	12297	CB	LEU	1342	13.804	-39.123	36.363	1.00	14.39
ATOM	12298	CG	LEU	1342	14.379	-38.356	36.361	1.00	20.32
ATOM	12299	CD1	LEU	1342	14.356	-38.357	36.363	1.00	23.15
ATOM	12300	CD2	LEU	1342	13.339	-38.103	36.438	1.00	13.90
ATOM	12301	C	LEU	1342	12.969	-38.343	36.566	1.00	11.33
ATOM	12302	O	LEU	1342	11.346	-38.612	36.363	1.00	16.36
ATOM	12303	N	VAL	1343	11.309	-38.113	35.901	1.00	11.33
ATOM	12304	CA	VAL	1343	11.679	-38.343	36.363	1.00	13.32
ATOM	12305	CB	VAL	1343	11.315	-38.313	36.364	1.00	13.13
ATOM	12306	CG1	VAL	1343	10.367	-38.363	36.363	1.00	13.32
ATOM	12307	CG2	VAL	1343	10.317	-38.363	36.363	1.00	13.32
ATOM	12308	O	VAL	1343	12.300	-38.363	36.363	1.00	13.33
ATOM	12309	C	VAL	1343	12.301	-38.363	36.363	1.00	13.33
ATOM	12310	N	GLY	1344	12.300	-38.363	36.363	1.00	13.33
ATOM	12311	CA	GLY	1344	12.300	-38.363	36.363	1.00	13.33
ATOM	12312	C	GLY	1344	12.300	-38.363	36.363	1.00	13.33
ATOM	12313	O	GLY	1344	12.300	-38.363	36.363	1.00	13.33
ATOM	12314	N	ASP	1345	14.300	-38.363	36.363	1.00	13.33
ATOM	12315	CA	ASP	1345	14.300	-38.363	36.363	1.00	13.33
ATOM	12316	CB	ASP	1345	15.300	-38.363	36.363	1.00	13.33
ATOM	12317	CG	ASP	1345	16.300	-38.363	36.363	1.00	13.33
ATOM	12318	CD1	ASP	1345	17.300	-38.363	36.363	1.00	13.33
ATOM	12319	CD2	ASP	1345	18.300	-38.363	36.363	1.00	13.33
ATOM	12320	C	ASP	1345	19.300	-38.363	36.363	1.00	13.33
ATOM	12321	O	ASP	1345	20.300	-38.363	36.363	1.00	13.33
ATOM	12322	N	THR	1346	21.300	-38.363	36.363	1.00	13.33
ATOM	12323	CA	THR	1346	22.300	-38.363	36.363	1.00	13.33
ATOM	12324	CB	THR	1346	23.300	-38.363	36.363	1.00	13.33
ATOM	12325	CG	THR	1346	24.300	-38.363	36.363	1.00	13.33
ATOM	12326	C	THR	1346	25.300	-38.363	36.363	1.00	13.33
ATOM	12327	O	THR	1346	26.300	-38.363	36.363	1.00	13.33
ATOM	12328	N	LEU	1347	27.300	-38.363	36.363	1.00	13.33
ATOM	12329	CA	LEU	1347	28.300	-38.363	36.363	1.00	13.33
ATOM	12330	CB	LEU	1347	29.300	-38.363	36.363	1.00	13.33
ATOM	12331	CG	LEU	1347	30.300	-38.363	36.363	1.00	13.33
ATOM	12332	CD1	LEU	1347	31.300	-38.363	36.363	1.00	13.33
ATOM	12333	CD2	LEU	1347	32.300	-38.363	36.363	1.00	13.33
ATOM	12334	C	LEU	1347	33.300	-38.363	36.363	1.00	13.33
ATOM	12335	O	LEU	1347	34.300	-38.363	36.363	1.00	13.33
ATOM	12336	N	GLY	1348	35.300	-38.363	36.363	1.00	13.33
ATOM	12337	CA	GLY	1348	36.300	-38.363	36.363	1.00	13.33
ATOM	12338	C	GLY	1348	37.300	-38.363	36.363	1.00	13.33
ATOM	12339	O	GLY	1348	38.300	-38.363	36.363	1.00	13.33
ATOM	12340	N	MET	1349	39.300	-38.363	36.363	1.00	13.33
ATOM	12341	CA	MET	1349	40.300	-38.363	36.363	1.00	13.33
ATOM	12342	CB	MET	1349	41.300	-38.363	36.363	1.00	13.33
ATOM	12343	CG	MET	1349	42.300	-38.363	36.363	1.00	13.33
ATOM	12344	SD	MET	1349	43.300	-38.363	36.363	1.00	13.33
ATOM	12345	CE	MET	1349	44.300	-38.363	36.363	1.00	13.33
ATOM	12346	C	MET	1349	45.300	-38.363	36.363	1.00	13.33
ATOM	12347	O	MET	1349	46.300	-38.363	36.363	1.00	13.33
ATOM	12348	N	THR	1350	47.300	-38.363	36.363	1.00	13.33

ATOM	12349	CA	THR	1350	6.826	-29.321	13.752	1.00	13.07
ATOM	12350	CB	THR	1350	7.165	-30.523	13.756	1.00	16.49
ATOM	12351	CG1	THR	1350	6.003	-31.332	14.735	1.00	23.16
ATOM	12352	CG2	THR	1350	7.657	-30.334	16.116	1.00	13.78
ATOM	12353	C	THR	1350	5.722	-32.477	13.702	1.00	13.43
ATOM	12354	O	THR	1350	4.529	-28.703	13.732	1.00	13.06
ATOM	12355	N	VAL	1351	5.101	-22.505	13.719	1.00	9.33
ATOM	12356	CA	VAL	1351	5.045	-26.662	13.767	1.00	10.11
ATOM	12357	CB	VAL	1351	5.447	-26.485	15.455	1.00	9.33
ATOM	12358	CG1	VAL	1351	4.436	-23.449	13.777	1.00	9.33
ATOM	12359	CG2	VAL	1351	5.449	-21.719	14.777	1.00	9.33
ATOM	12360	C	VAL	1351	4.314	-21.616	13.777	1.00	10.11
ATOM	12361	O	VAL	1351	3.775	-23.639	13.777	1.00	10.11
ATOM	12362	N	GLY	1352	5.917	-26.664	13.777	1.00	9.33
ATOM	12363	CA	GLY	1352	5.769	-23.773	13.777	1.00	10.11
ATOM	12364	CB	GLY	1352	5.133	-22.466	14.777	1.00	10.11
ATOM	12365	CG	GLY	1352	5.770	-22.402	16.777	1.00	11.63
ATOM	12366	C	GLY	1352	4.730	-21.771	16.777	1.00	13.66
ATOM	12367	CG1	GLY	1352	9.667	-21.770	15.777	1.00	11.63
ATOM	12368	CG2	GLY	1352	3.545	-23.770	17.777	1.00	9.33
ATOM	12369	C	GLY	1352	5.770	-21.771	13.777	1.00	11.63
ATOM	12370	O	GLY	1352	5.801	-21.771	13.777	1.00	11.63
ATOM	12371	N	GLY	1353	6.787	-24.339	13.777	1.00	9.33
ATOM	12372	CA	GLY	1353	6.779	-24.337	13.777	1.00	10.11
ATOM	12373	CB	GLY	1353	5.117	-22.677	16.777	1.00	11.63
ATOM	12374	CG	GLY	1353	6.770	-22.674	17.777	1.00	11.63
ATOM	12375	C	HIS	1354	3.345	-23.678	16.777	1.00	11.63
ATOM	12376	CA	HIS	1354	9.577	-23.676	17.777	1.00	11.63
ATOM	12377	CB	HIS	1354	10.334	-21.947	17.777	1.00	13.74
ATOM	12378	CG	HIS	1354	9.667	-21.770	11.777	1.00	13.74
ATOM	12379	CG2	HIS	1354	9.776	-21.770	13.777	1.00	11.63
ATOM	12380	C	HIS	1354	9.666	-21.770	17.777	1.00	11.63
ATOM	12381	CG1	HIS	1354	3.346	-23.678	11.777	1.00	13.74
ATOM	12382	CG2	HIS	1354	3.371	-23.678	11.777	1.00	13.74
ATOM	12383	C	HIS	1354	13.311	-24.335	17.777	1.00	13.74
ATOM	12384	O	HIS	1354	10.334	-21.947	17.777	1.00	13.74
ATOM	12385	N	ASP	1355	11.705	-23.678	17.777	1.00	13.74
ATOM	12386	CA	ASP	1355	11.771	-23.678	17.777	1.00	23.16
ATOM	12387	CB	ASP	1355	12.661	-23.678	17.777	1.00	23.16
ATOM	12388	CG	ASP	1355	13.777	-23.678	17.777	1.00	23.16
ATOM	12389	C	ASP	1355	14.317	-23.678	17.777	1.00	31.66
ATOM	12390	CG1	ASP	1355	17.777	-23.678	17.777	1.00	34.77
ATOM	12391	CG2	ASP	1355	17.777	-23.678	17.777	1.00	19.44
ATOM	12392	C	ASP	1355	18.661	-23.678	17.777	1.00	11.63
ATOM	12393	O	ASP	1355	18.661	-23.678	17.777	1.00	11.63
ATOM	12394	N	SER	1356	13.851	-24.335	17.777	1.00	11.63
ATOM	12395	CA	SER	1356	14.334	-24.335	17.777	1.00	11.63
ATOM	12396	CB	SER	1356	15.777	-24.335	17.777	1.00	11.63
ATOM	12397	CG	SER	1356	15.777	-24.335	17.777	1.00	11.63
ATOM	12398	C	SER	1356	15.777	-24.335	17.777	1.00	11.63
ATOM	12399	O	SER	1356	15.777	-24.335	17.777	1.00	11.63
ATOM	12400	CA	THR	1357	15.334	-24.335	17.777	1.00	11.63
ATOM	12401	CB	THR	1357	15.334	-24.335	17.777	1.00	11.63
ATOM	12402	CG	THR	1357	15.334	-24.335	17.777	1.00	11.63
ATOM	12403	C	THR	1357	15.334	-24.335	17.777	1.00	11.63
ATOM	12404	O	THR	1357	15.334	-24.335	17.777	1.00	11.63
ATOM	12405	CA	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12406	CB	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12407	CG	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12408	C	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12409	O	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12410	CD1	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12411	CD2	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12412	C	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12413	O	LEU	1358	15.334	-24.335	17.777	1.00	11.63
ATOM	12414	N	PRO	1359	15.334	-24.335	17.777	1.00	11.63
ATOM	12415	CA	PRO	1359	15.334	-24.335	17.777	1.00	11.63
ATOM	12416	CB	PRO	1359	15.334	-24.335	17.777	1.00	11.63
ATOM	12417	CG	PRO	1359	15.334	-24.335	17.777	1.00	11.63
ATOM	12418	C	PRO	1359	15.334	-24.335	17.777	1.00	11.63
ATOM	12419	O	PRO	1359	15.334	-24.335	17.777	1.00	11.63
ATOM	12420	N	VAL	1360	13.853	-26.680	16.115	1.00	9.89
ATOM	12421	CA	VAL	1360	13.487	-26.680	17.514	1.00	9.80
ATOM	12422	CB	VAL	1360	12.650	-22.397	17.814	1.00	9.99
ATOM	12423	CG1	VAL	1360	13.325	-22.674	19.218	1.00	10.58
ATOM	12424	CG2	VAL	1360	12.816	-23.222	16.855	1.00	10.13

ATOM	12426	C	VAL	1800	14.343	-20.116	18.507	1.00	9.53
ATOM	12427	C	VAL	1800	15.570	-19.165	18.449	1.00	8.57
ATOM	12428	N	THR	1801	13.691	-19.419	18.445	1.00	9.74
ATOM	12429	CA	THR	1801	14.418	-18.633	20.441	1.00	12.01
ATOM	12430	CB	THR	1801	13.845	-15.199	20.509	1.00	15.97
ATOM	12431	OG1	THR	1801	13.816	-16.623	20.191	1.00	20.58
ATOM	12432	OH	THR	1801	14.722	-16.325	21.387	1.00	23.39
ATOM	12433	C	THR	1801	14.367	-19.370	21.421	1.00	11.31
ATOM	12434	O	THR	1801	13.603	-20.199	22.072	1.00	9.35
ATOM	12435	N	VAL	1802	15.214	-18.773	22.717	1.00	11.89
ATOM	12436	CA	VAL	1802	15.261	-19.275	24.079	1.00	11.66
ATOM	12437	CB	VAL	1802	16.354	-17.524	24.523	1.00	11.66
ATOM	12438	CG1	VAL	1802	16.238	-18.982	26.167	1.00	12.48
ATOM	12439	CG2	VAL	1802	17.713	-18.715	24.149	1.00	13.06
ATOM	12440	C	VAL	1802	13.863	-19.060	24.195	1.00	11.11
ATOM	12441	C	VAL	1802	13.866	-19.965	25.168	1.00	11.67
ATOM	12442	N	ALA	1803	13.827	-17.841	24.421	1.00	10.93
ATOM	12443	CA	ALA	1803	11.894	-17.697	24.966	1.00	10.69
ATOM	12444	CB	ALA	1803	11.890	-16.576	24.125	1.00	13.54
ATOM	12445	C	ALA	1803	10.803	-18.773	24.699	1.00	10.75
ATOM	12446	O	ALA	1803	19.085	-19.140	25.178	1.00	8.92
ATOM	12447	N	ASP	1804	11.021	-18.141	23.121	1.00	8.90
ATOM	12448	CA	ASP	1804	10.125	-20.191	22.689	1.00	9.84
ATOM	12449	CB	ASP	1804	10.481	-20.488	21.131	1.00	9.14
ATOM	12450	CG	ASP	1804	10.165	-19.312	20.183	1.00	9.13
ATOM	12451	OD1	ASP	1804	9.438	-18.581	20.430	1.00	11.77
ATOM	12452	OD2	ASP	1804	10.128	-19.187	19.172	1.00	10.66
ATOM	12453	C	ASP	1804	10.078	-21.487	23.136	1.00	9.18
ATOM	12454	O	ASP	1804	9.138	-22.174	23.181	1.00	8.41
ATOM	12455	N	ILE	1805	11.883	-21.876	23.860	1.00	8.67
ATOM	12456	CA	ILE	1805	11.878	-21.111	24.838	1.00	9.11
ATOM	12457	CB	ILE	1805	13.400	-22.315	24.520	1.00	9.33
ATOM	12458	CG2	ILE	1805	13.888	-24.518	25.170	1.00	11.12
ATOM	12459	CG1	ILE	1805	14.127	-23.636	23.134	1.00	9.79
ATOM	12460	CD1	ILE	1805	13.134	-24.855	22.137	1.00	8.07
ATOM	12461	C	ILE	1805	11.887	-21.006	25.139	1.00	9.15
ATOM	12462	O	ILE	1805	10.881	-21.991	26.081	1.00	9.30
ATOM	12463	N	ALA	1806	11.336	-21.906	26.181	1.00	7.40
ATOM	12464	CA	ALA	1806	10.920	-21.716	27.143	1.00	5.92
ATOM	12465	CB	ALA	1806	11.871	-20.335	28.087	1.00	6.24
ATOM	12466	C	ALA	1806	9.831	-21.879	27.131	1.00	8.68
ATOM	12467	O	ALA	1806	8.833	-21.480	28.016	1.00	8.71
ATOM	12468	N	TYR	1807	8.833	-21.719	26.887	1.00	7.88
ATOM	12469	CA	TYR	1807	7.837	-21.421	26.817	1.00	9.45
ATOM	12470	CB	TYR	1807	6.839	-20.700	25.130	1.00	8.56
ATOM	12471	CG	TYR	1807	5.843	-20.839	25.114	1.00	8.40
ATOM	12472	CD1	TYR	1807	4.844	-21.217	26.134	1.00	11.09
ATOM	12473	CD2	TYR	1807	3.846	-20.716	26.813	1.00	11.97
ATOM	12474	CE3	TYR	1807	4.844	-21.486	24.137	1.00	9.90
ATOM	12475	CE2	TYR	1807	3.846	-21.501	23.121	1.00	9.81
ATOM	12476	CE	TYR	1807	2.848	-20.968	24.131	1.00	9.83
ATOM	12477	CH	TYR	1807	1.849	-21.972	24.131	1.00	13.31
ATOM	12478	C	TYR	1807	0.843	-21.874	25.131	1.00	9.90
ATOM	12479	O	TYR	1807	5.843	-21.308	27.131	1.00	8.93
ATOM	12480	N	HIS	1808	7.843	-21.619	25.131	1.00	7.87
ATOM	12481	CA	HIS	1808	7.843	-21.016	26.131	1.00	10.37
ATOM	12482	CB	HIS	1808	7.843	-21.543	24.131	1.00	9.87
ATOM	12483	CG	HIS	1808	6.844	-24.989	23.136	1.00	9.11
ATOM	12484	CD1	HIS	1808	7.843	-23.988	22.130	1.00	9.03
ATOM	12485	ND1	HIS	1808	5.843	-21.267	22.131	1.00	8.93
ATOM	12486	CE1	HIS	1808	5.843	-24.490	21.136	1.00	8.96
ATOM	12487	NE2	HIS	1808	6.844	-23.674	21.134	1.00	8.75
ATOM	12488	C	HIS	1808	7.843	-25.890	26.134	1.00	10.42
ATOM	12489	O	HIS	1808	6.843	-26.804	27.136	1.00	9.01
ATOM	12490	N	THR	1809	8.631	-25.481	27.489	1.00	10.19
ATOM	12491	CA	THR	1809	9.173	-26.197	28.135	1.00	10.01
ATOM	12492	CB	THR	1809	10.170	-25.639	29.132	1.00	11.08
ATOM	12493	OG1	THR	1809	11.434	-25.995	28.072	1.00	11.79
ATOM	12494	OG2	THR	1809	10.134	-26.205	30.133	1.00	10.61
ATOM	12495	C	THR	1809	8.174	-26.037	29.499	1.00	10.50
ATOM	12496	O	THR	1809	7.896	-27.086	30.131	1.00	9.07
ATOM	12497	N	ALA	1870	7.837	-24.884	30.135	1.00	9.46
ATOM	12498	CA	ALA	1870	6.673	-24.719	31.145	1.00	10.75
ATOM	12499	CB	ALA	1870	6.391	-23.212	31.131	1.00	11.04
ATOM	12500	C	ALA	1870	5.416	-25.513	30.909	1.00	10.58
ATOM	12501	O	ALA	1870	4.886	-26.180	31.831	1.00	11.31
ATOM	12502	N	ALA	1871	4.939	-25.568	29.672	1.00	9.74

ATOM	12505	CA	ALA	1-71	4.733	-26.330	29.547	1.00	10.34
ATOM	12504	CB	ALA	1-71	4.324	-26.056	27.907	1.00	9.64
ATOM	12505	C	ALA	1-71	4.965	-27.848	29.556	1.00	10.87
ATOM	12506	O	ALA	1-71	4.101	-28.514	30.111	1.00	11.14
ATOM	12507	N	VAL	1-72	5.113	-28.343	29.126	1.00	8.50
ATOM	12508	CA	VAL	1-72	5.413	-28.754	29.350	1.00	9.80
ATOM	12509	CB	VAL	1-72	6.724	-30.161	28.569	1.00	8.60
ATOM	12510	CG1	VAL	1-72	7.163	-31.563	29.019	1.00	5.70
ATOM	12511	CG2	VAL	1-72	6.483	-30.174	27.061	1.00	8.96
ATOM	12512	C	VAL	1-72	5.513	-30.073	30.788	1.00	10.46
ATOM	12513	O	VAL	1-72	4.973	-31.035	31.245	1.00	11.39
ATOM	12514	N	ASP	1-73	6.183	-29.231	31.549	1.00	10.39
ATOM	12515	CA	ASP	1-73	6.311	-29.450	32.980	1.00	9.63
ATOM	12516	CB	ASP	1-73	7.153	-28.343	33.647	1.00	5.70
ATOM	12517	CG	ASP	1-73	7.283	-29.505	35.177	1.00	10.14
ATOM	12518	CD	ASP	1-73	9.357	-29.878	35.567	1.00	12.14
ATOM	12519	OE	ASP	1-73	9.183	-30.011	35.268	1.00	15.69
ATOM	12520	CZ	ASP	1-73	9.933	-31.172	35.250	1.00	12.14
ATOM	12521	NH1	ASP	1-73	9.230	-30.304	35.461	1.00	17.14
ATOM	12522	NH2	ASP	1-73	11.217	-31.237	35.075	1.00	12.14
ATOM	12523	C	ASP	1-73	4.934	-29.621	33.645	1.00	10.63
ATOM	12524	O	ASP	1-73	4.733	-29.319	34.567	1.00	12.14
ATOM	12525	N	ARG	1-74	3.963	-28.713	33.190	1.00	9.77
ATOM	12526	CA	ARG	1-74	2.631	-28.770	33.774	1.00	10.36
ATOM	12527	CB	ARG	1-74	1.736	-27.843	33.206	1.00	12.12
ATOM	12528	CG	ARG	1-74	2.325	-26.243	33.444	1.00	15.76
ATOM	12529	CD	ARG	1-74	1.330	-25.123	33.364	1.00	15.76
ATOM	12530	NE	ARG	1-74	1.363	-25.343	33.592	1.00	15.76
ATOM	12531	CZ	ARG	1-74	2.419	-23.171	32.637	1.00	19.11
ATOM	12532	NH1	ARG	1-74	2.137	-23.517	32.373	1.00	14.11
ATOM	12533	NH2	ARG	1-74	3.937	-22.963	32.955	1.00	17.47
ATOM	12534	C	ARG	1-74	1.930	-20.119	30.546	1.00	11.41
ATOM	12535	O	ARG	1-74	1.173	-20.632	34.424	1.00	14.12
ATOM	12536	N	GLY	1-75	2.250	-20.626	30.380	1.00	11.12
ATOM	12537	CA	GLY	1-75	1.676	-21.053	30.077	1.00	10.14
ATOM	12538	C	GLY	1-75	2.333	-22.187	31.720	1.00	10.14
ATOM	12539	O	GLY	1-75	1.733	-23.130	30.021	1.00	9.60
ATOM	12540	N	ALA	1-76	3.937	-23.101	30.935	1.00	11.12
ATOM	12541	CA	ALA	1-76	4.155	-24.071	33.527	1.00	11.10
ATOM	12542	CB	ALA	1-76	5.333	-24.713	32.430	1.00	14.12
ATOM	12543	C	ALA	1-76	5.733	-25.313	34.631	1.00	12.32
ATOM	12544	O	ALA	1-76	6.633	-26.374	34.451	1.00	11.12
ATOM	12545	N	LEU	1-77	4.733	-23.731	35.806	1.00	14.14
ATOM	12546	CD	LEU	1-77	3.173	-23.473	36.216	1.00	14.12
ATOM	12547	CA	LEU	1-77	3.333	-23.137	36.920	1.00	15.12
ATOM	12548	CB	LEU	1-77	4.133	-21.873	37.964	1.00	15.12
ATOM	12549	CG	LEU	1-77	3.433	-23.131	37.736	1.00	16.10
ATOM	12550	C	LEU	1-77	6.633	-25.131	37.662	1.00	17.14
ATOM	12551	O	LEU	1-77	5.333	-25.033	38.172	1.00	18.14
ATOM	12552	N	ASN	1-78	6.633	-24.301	37.146	1.00	15.19
ATOM	12553	CA	ASN	1-78	7.733	-23.713	37.673	1.00	17.12
ATOM	12554	CB	ASN	1-78	5.033	-23.633	38.183	1.00	12.10
ATOM	12555	CG	ASN	1-78	6.033	-23.031	39.460	1.00	15.14
ATOM	12556	CD1	ASN	1-78	6.433	-23.033	40.359	1.00	15.14
ATOM	12557	ND2	ASN	1-78	4.633	-23.934	39.175	1.00	28.19
ATOM	12558	C	ASN	1-78	6.733	-23.033	36.195	1.00	17.12
ATOM	12559	O	ASN	1-78	6.333	-23.133	36.916	1.00	16.19
ATOM	12560	N	CYS	1-79	9.333	-30.733	35.349	1.00	15.14
ATOM	12561	CA	CYS	1-79	9.433	-30.733	34.109	1.00	15.14
ATOM	12562	CB	CYS	1-79	8.890	-31.103	32.917	1.00	14.10
ATOM	12563	SG	CYS	1-79	9.037	-34.133	32.186	1.00	16.19
ATOM	12564	C	CYS	1-79	10.833	-35.133	34.165	1.00	13.12
ATOM	12565	O	CYS	1-79	11.633	-34.604	35.062	1.00	13.15
ATOM	12566	N	LEU	1-80	11.860	-30.121	33.653	1.00	13.16
ATOM	12567	CA	LEU	1-80	13.130	-35.666	32.540	1.00	13.12
ATOM	12568	CB	LEU	1-80	14.183	-36.746	33.517	1.00	12.10
ATOM	12569	CG	LEU	1-80	15.583	-36.133	32.644	1.00	12.15
ATOM	12570	CD1	LEU	1-80	16.056	-35.313	34.142	1.00	14.10
ATOM	12571	CD2	LEU	1-80	16.161	-37.299	32.782	1.00	15.31
ATOM	12572	C	LEU	1-80	12.923	-34.863	32.259	1.00	11.17
ATOM	12573	O	LEU	1-80	12.573	-35.433	31.721	1.00	12.35
ATOM	12574	N	LEU	1-81	13.124	-32.554	32.324	1.00	8.79
ATOM	12575	CA	LEU	1-81	12.881	-32.715	31.166	1.00	10.32
ATOM	12576	CB	LEU	1-81	11.882	-31.600	31.534	1.00	11.46
ATOM	12577	CG	LEU	1-81	11.152	-30.773	30.459	1.00	14.79
ATOM	12578	CD1	LEU	1-81	10.169	-29.869	31.176	1.00	14.22
ATOM	12579	CD2	LEU	1-81	12.096	-29.933	29.599	1.00	17.18

ATOM	12540	C	LEU	1881	14.114	-32.107	27.181	1.00	11.08
ATOM	12541	O	LEU	1881	14.800	-31.174	31.241	1.00	12.13
ATOM	12542	N	LEU	1881	14.460	-32.444	19.362	1.00	11.10
ATOM	12543	CA	LEU	1882	15.622	-31.885	28.638	1.00	11.79
ATOM	12544	CB	LEU	1882	16.344	-31.952	27.867	1.00	11.43
ATOM	12545	CG	LEU	1882	17.104	-31.974	28.638	1.00	12.07
ATOM	12546	CD1	LEU	1882	16.344	-31.976	29.437	1.00	12.70
ATOM	12547	CD2	LEU	1882	17.862	-31.878	27.57	1.00	12.13
ATOM	12548	C	LEU	1882	15.146	-31.767	27.78	1.00	12.92
ATOM	12549	O	LEU	1882	14.172	-31.926	27.951	1.00	12.46
ATOM	12550	N	ALA	1883	15.888	-29.623	27.85	1.00	11.32
ATOM	12551	CA	ALA	1883	15.426	-28.570	26.999	1.00	11.45
ATOM	12552	CP	ALA	1883	14.969	-27.342	27.824	1.00	12.10
ATOM	12553	C	ALA	1883	16.604	-28.132	26.144	1.00	11.52
ATOM	12554	O	ALA	1883	17.548	-28.030	26.659	1.00	10.54
ATOM	12555	N	ASP	1884	16.124	-27.941	24.85	1.00	12.57
ATOM	12556	CA	ASP	1884	17.447	-27.533	23.45	1.00	12.76
ATOM	12557	CB	ASP	1884	16.681	-27.639	23.47	1.00	12.52
ATOM	12558	CG	ASP	1884	17.151	-24.961	21.82	1.00	12.04
ATOM	12559	CD1	ASP	1884	17.187	-24.851	22.51	1.00	12.51
ATOM	12560	CD2	ASP	1884	17.198	-24.693	20.61	1.00	12.48
ATOM	12561	C	ASP	1884	17.185	-24.669	24.13	1.00	12.66
ATOM	12562	O	ASP	1884	16.344	-23.217	24.55	1.00	12.13
ATOM	12563	N	LEU	1885	19.149	-22.719	23.88	1.00	12.80
ATOM	12564	CA	LEU	1885	19.449	-23.318	23.86	1.00	12.01
ATOM	12565	CB	LEU	1885	20.160	-24.097	24.411	1.00	11.51
ATOM	12566	CG	LEU	1885	20.881	-23.634	25.43	1.00	12.75
ATOM	12567	CD1	LEU	1885	22.113	-23.553	26.877	1.00	12.19
ATOM	12568	CD2	LEU	1885	19.163	-23.123	26.466	1.00	15.95
ATOM	12569	C	LEU	1885	19.112	-23.132	22.34	1.00	10.80
ATOM	12570	O	LEU	1885	20.173	-21.932	21.654	1.00	11.71
ATOM	12571	N	PRO	1886	18.606	-23.245	21.793	1.00	10.45
ATOM	12572	CD	PRO	1886	17.882	-23.290	22.533	1.00	10.25
ATOM	12573	CE	PRO	1886	18.606	-23.014	20.350	1.00	11.23
ATOM	12574	CF	PRO	1886	17.186	-22.158	20.334	1.00	11.55
ATOM	12575	CG	PRO	1886	17.187	-22.126	21.474	1.00	11.59
ATOM	12576	C	PRO	1886	19.119	-22.317	19.678	1.00	11.11
ATOM	12577	O	PRO	1886	20.818	-22.045	20.314	1.00	12.04
ATOM	12578	N	PHE	1887	19.682	-22.178	18.858	1.00	9.35
ATOM	12579	CA	PHE	1887	20.703	-21.578	19.11	1.00	10.68
ATOM	12580	CB	PHE	1887	20.117	-21.163	16.119	1.00	11.11
ATOM	12581	CG	PHE	1887	20.942	-21.130	15.277	1.00	12.67
ATOM	12582	CD1	PHE	1887	22.711	-20.793	14.856	1.00	12.73
ATOM	12583	CD2	PHE	1887	20.116	-21.110	14.896	1.00	12.62
ATOM	12584	CE1	PHE	1887	21.018	-19.993	14.657	1.00	12.72
ATOM	12585	CE2	PHE	1887	21.330	-19.126	14.090	1.00	12.51
ATOM	12586	CF	PHE	1887	22.688	-19.315	12.878	1.00	12.64
ATOM	12587	C	PHE	1887	21.129	-20.311	16.151	1.00	12.86
ATOM	12588	O	PHE	1887	20.541	-19.415	18.547	1.00	9.43
ATOM	12589	N	MET	1888	22.614	-20.260	16.159	1.00	8.27
ATOM	12590	CA	MET	1888	23.388	-19.914	18.080	1.00	12.10
ATOM	12591	CB	MET	1888	23.641	-21.538	18.129	1.00	12.19
ATOM	12592	CG	MET	1888	24.073	-21.135	18.866	1.00	12.87
ATOM	12593	CD	MET	1888	22.911	-18.754	20.151	1.00	12.89
ATOM	12594	CE	MET	1888	23.917	-21.164	20.675	1.00	12.89
ATOM	12595	N	ALA	1889	22.448	-19.555	21.147	1.00	12.64
ATOM	12596	CA	ALA	1889	22.019	-19.421	21.341	1.00	11.53
ATOM	12597	CB	ALA	1889	20.801	-20.146	22.179	1.00	12.05
ATOM	12598	C	ALA	1889	23.200	-19.751	21.185	1.00	11.53
ATOM	12599	O	ALA	1889	23.087	-18.585	24.199	1.00	12.56
ATOM	12600	N	TYR	1890	24.361	-20.292	22.859	1.00	11.07
ATOM	12601	CA	TYR	1890	25.439	-20.654	23.707	1.00	12.50
ATOM	12602	CB	TYR	1890	25.378	-22.121	24.088	1.00	12.92
ATOM	12603	CG	TYR	1890	25.067	-22.060	22.939	1.00	12.64
ATOM	12604	CD1	TYR	1890	26.089	-22.716	22.157	1.00	12.95
ATOM	12605	CD2	TYR	1890	25.809	-23.579	21.191	1.00	12.46
ATOM	12606	CE1	TYR	1890	25.750	-22.138	22.537	1.00	12.15
ATOM	12607	CE2	TYR	1890	23.458	-24.156	21.472	1.00	12.84
ATOM	12608	CF	TYR	1890	24.488	-23.788	20.609	1.00	16.93
ATOM	12609	CG	TYR	1890	24.208	-23.631	19.156	1.00	19.58
ATOM	12610	C	TYR	1890	26.743	-20.287	23.000	1.00	12.88
ATOM	12611	O	TYR	1890	27.716	-21.045	23.037	1.00	12.54
ATOM	12612	N	ALA	1891	26.741	-19.114	22.371	1.00	11.99
ATOM	12613	CA	ALA	1891	27.885	-18.600	21.618	1.00	12.09
ATOM	12614	CB	ALA	1891	27.472	-17.339	20.862	1.00	12.53

ATOM	12657	C	ALA	1991	30.160	-19.309	22.490	1.00	13.87
ATOM	12658	O	ALA	1991	30.231	-19.289	22.009	1.00	13.32
ATOM	12659	N	THR	1991	29.850	-19.053	23.769	1.00	13.24
ATOM	12660	CA	THR	1991	29.895	-19.799	24.237	1.00	12.51
ATOM	12661	CB	THR	1991	30.098	-19.289	25.011	1.00	11.96
ATOM	12662	CG1	THR	1991	29.268	-19.781	25.737	1.00	12.19
ATOM	12663	CG2	THR	1991	30.235	-19.519	23.709	1.00	13.36
ATOM	12664	C	THR	1991	29.449	-19.439	26.033	1.00	13.46
ATOM	12665	O	THR	1991	29.251	-19.669	26.231	1.00	14.38
ATOM	12666	N	PRO	1993	30.391	-19.731	26.937	1.00	14.40
ATOM	12667	CA	PRO	1993	31.869	-19.731	26.739	1.00	13.32
ATOM	12668	CB	PRO	1993	29.781	-19.319	27.139	1.00	13.16
ATOM	12669	CG	PRO	1993	31.319	-19.519	27.939	1.00	12.60
ATOM	12670	CG	PRO	1993	32.319	-19.789	27.830	1.00	15.21
ATOM	12671	C	PRO	1993	29.199	-19.449	27.939	1.00	13.35
ATOM	12672	O	PRO	1993	27.969	-19.919	26.415	1.00	11.45
ATOM	12673	N	GLU	1994	29.179	-19.149	28.934	1.00	15.13
ATOM	12674	CA	GLU	1994	28.179	-19.229	29.661	1.00	15.41
ATOM	12675	CB	GLU	1994	28.949	-19.809	29.664	1.00	16.41
ATOM	12676	CG	GLU	1994	28.179	-19.739	30.437	1.00	28.39
ATOM	12677	CD	GLU	1994	29.04	-19.721	31.046	1.00	33.14
ATOM	12678	OE1	GLU	1994	29.939	-19.523	30.334	1.00	34.50
ATOM	12679	OE2	GLU	1994	28.849	-19.379	31.173	1.00	37.27
ATOM	12680	C	GLU	1994	29.959	-19.261	29.111	1.00	14.63
ATOM	12681	O	GLU	1994	29.989	-19.357	29.669	1.00	14.66
ATOM	12682	N	GLN	1995	29.819	-19.807	29.777	1.00	13.27
ATOM	12683	CA	GLN	1995	29.479	-19.369	29.174	1.00	14.64
ATOM	12684	CB	GLN	1995	29.539	-19.123	29.675	1.00	18.45
ATOM	12685	CG	GLN	1995	29.049	-19.149	29.153	1.00	26.37
ATOM	12686	CD	GLN	1995	29.809	-19.449	29.175	1.00	30.60
ATOM	12687	OE1	GLN	1995	29.669	-19.349	29.669	1.00	35.63
ATOM	12688	OE2	GLN	1995	29.689	-19.319	29.177	1.00	35.29
ATOM	12689	C	GLN	1995	29.819	-19.769	29.445	1.00	14.64
ATOM	12690	O	GLN	1995	29.539	-19.739	29.663	1.00	12.48
ATOM	12691	N	ALA	1996	29.669	-19.319	29.175	1.00	11.13
ATOM	12692	CA	ALA	1996	29.069	-20.169	29.172	1.00	11.56
ATOM	12693	CB	ALA	1996	29.189	-20.149	29.172	1.00	11.03
ATOM	12694	C	ALA	1996	29.119	-20.119	29.173	1.00	11.53
ATOM	12695	O	ALA	1996	29.469	-20.739	29.177	1.00	11.46
ATOM	12696	N	PHE	1997	29.179	-19.479	29.174	1.00	16.77
ATOM	12697	CA	PHE	1997	29.179	-19.449	29.175	1.00	11.53
ATOM	12698	CB	PHE	1997	29.669	-19.619	30.170	1.00	9.99
ATOM	12699	CG	PHE	1997	29.119	-19.419	30.172	1.00	16.28
ATOM	12700	CD	PHE	1997	29.469	-20.449	30.170	1.00	17.24
ATOM	12701	OE1	PHE	1997	29.179	-19.119	30.177	1.00	9.95
ATOM	12702	OE2	PHE	1997	29.179	-20.879	30.176	1.00	12.57
ATOM	12703	OE3	PHE	1997	29.469	-19.619	30.177	1.00	11.60
ATOM	12704	C	PHE	1997	29.179	-19.959	30.179	1.00	13.96
ATOM	12705	O	PHE	1997	29.179	-19.619	30.177	1.00	11.72
ATOM	12706	N	PHE	1997	29.469	-19.349	30.172	1.00	19.76
ATOM	12707	N	GLU	1998	29.179	-19.669	30.176	1.00	11.55
ATOM	12708	CA	GLU	1998	29.179	-19.949	30.176	1.00	14.41
ATOM	12709	CB	GLU	1998	29.179	-19.519	30.174	1.00	17.46
ATOM	12710	CG	GLU	1998	29.669	-19.619	30.170	1.00	15.46
ATOM	12711	CD	GLU	1998	29.179	-19.619	30.174	1.00	18.90
ATOM	12712	OE1	GLU	1998	29.179	-19.179	30.172	1.00	11.39
ATOM	12713	OE2	GLU	1998	29.469	-19.169	30.175	1.00	14.77
ATOM	12714	C	GLU	1998	29.179	-19.669	30.172	1.00	12.46
ATOM	12715	O	GLU	1998	29.179	-19.799	30.173	1.00	11.48
ATOM	12716	N	ASN	1999	29.179	-19.219	29.172	1.00	12.32
ATOM	12717	CA	ASN	1999	29.669	-19.949	29.179	1.00	11.52
ATOM	12718	CB	ASN	1999	29.519	-19.664	29.669	1.00	12.87
ATOM	12719	CG	ASN	1999	29.469	-19.709	29.669	1.00	14.75
ATOM	12720	CD	ASN	1999	29.669	-19.779	29.661	1.00	10.94
ATOM	12721	OE1	ASN	1999	29.469	-19.579	29.611	1.00	11.61
ATOM	12722	C	ASN	1999	29.669	-20.311	29.666	1.00	11.22
ATOM	12723	O	ASN	1999	29.669	-20.719	29.663	1.00	10.29
ATOM	12724	N	ALA	1900	29.669	-20.989	29.668	1.00	10.29
ATOM	12725	CA	ALA	1900	29.469	-22.271	29.667	1.00	9.38
ATOM	12726	CB	ALA	1900	29.719	-22.926	30.170	1.00	8.73
ATOM	12727	C	ALA	1900	29.549	-21.970	31.522	1.00	9.37
ATOM	12728	O	ALA	1900	28.549	-22.646	31.762	1.00	8.92
ATOM	12729	N	ALA	1901	29.669	-20.936	32.175	1.00	10.46
ATOM	12730	CA	ALA	1901	29.147	-20.551	33.458	1.00	9.71
ATOM	12731	CB	ALA	1901	29.748	-19.294	34.036	1.00	9.96
ATOM	12732	C	ALA	1901	29.486	-20.305	33.199	1.00	9.18
ATOM	12733	O	ALA	1901	29.783	-20.733	33.823	1.00	9.21

ATOM	12734	N	THR	1907	17.415	-19.601	37.007	1.00	21.83
ATOM	12735	CF	THR	1907	17.437	-19.288	37.788	1.00	18.15
ATOM	12736	CF	THR	1907	17.961	-18.483	39.279	1.00	19.21
ATOM	12737	CG1	THR	1907	16.814	-17.268	39.484	1.00	16.09
ATOM	12738	CG2	THR	1907	14.647	-18.117	36.878	1.00	9.77
ATOM	12739	O	THR	1907	15.284	-20.549	31.403	1.00	16.35
ATOM	12740	O	THR	1907	14.176	-20.659	31.841	1.00	8.19
ATOM	12741	N	VAL	1908	15.801	-21.553	39.895	1.00	12.97
ATOM	12742	CA	VAL	1908	15.052	-22.723	36.410	1.00	12.02
ATOM	12743	CB	VAL	1908	15.839	-23.449	39.168	1.00	13.59
ATOM	12744	CG1	VAL	1908	15.915	-24.197	39.494	1.00	12.92
ATOM	12745	CG2	VAL	1908	14.577	-24.403	38.632	1.00	11.71
ATOM	12746	O	VAL	1908	14.236	-23.657	37.838	1.00	12.38
ATOM	12747	O	VAL	1908	15.961	-24.369	37.787	1.00	9.04
ATOM	12748	N	MET	1908	15.951	-23.947	38.578	1.00	13.10
ATOM	12749	CA	MET	1908	15.843	-24.751	37.778	1.00	11.10
ATOM	12750	CB	MET	1908	17.273	-24.428	34.444	1.00	12.49
ATOM	12751	CG	MET	1908	18.307	-25.681	33.939	1.00	12.31
ATOM	12752	SD	MET	1908	18.237	-26.845	33.611	1.00	19.52
ATOM	12753	CE	MET	1908	18.566	-27.204	35.406	1.00	18.10
ATOM	12754	O	MET	1908	14.217	-23.742	34.781	1.00	9.99
ATOM	12755	O	MET	1908	14.108	-24.479	35.423	1.00	11.43
ATOM	12756	N	ARG	1909	14.770	-22.427	34.860	1.00	8.90
ATOM	12757	CA	ARG	1909	15.736	-21.809	35.715	1.00	9.03
ATOM	12758	CB	ARG	1909	13.982	-20.295	35.901	1.00	8.24
ATOM	12759	CG	ARG	1909	15.331	-19.889	36.433	1.00	12.25
ATOM	12760	CD	ARG	1909	15.304	-18.465	37.053	1.00	11.94
ATOM	12761	NE	ARG	1909	16.652	-17.990	37.289	1.00	15.25
ATOM	12762	CE	ARG	1909	17.447	-17.416	36.387	1.00	13.90
ATOM	12763	NH1	ARG	1909	17.029	-17.233	35.149	1.00	14.60
ATOM	12764	NH2	ARG	1909	18.677	-17.063	36.733	1.00	17.42
ATOM	12765	O	ARG	1909	17.338	-22.099	35.357	1.00	8.53
ATOM	12766	O	ARG	1909	11.445	-22.195	36.024	1.00	10.47
ATOM	12767	N	ALA	1908	11.391	-22.274	33.946	1.00	8.58
ATOM	12768	CA	ALA	1908	11.711	-22.939	33.317	1.00	8.67
ATOM	12769	CB	ALA	1908	11.100	-22.235	32.814	1.00	9.41
ATOM	12770	O	ALA	1908	11.511	-23.963	33.535	1.00	19.77
ATOM	12771	O	ALA	1908	16.251	-24.276	33.256	1.00	10.26
ATOM	12772	N	ILE	1907	11.382	-24.841	34.018	1.00	16.92
ATOM	12773	CA	ILE	1907	11.842	-26.209	34.291	1.00	9.93
ATOM	12774	O	ILE	1907	11.889	-27.339	33.869	1.00	12.15
ATOM	12775	O	ILE	1907	11.684	-28.485	34.361	1.00	11.23
ATOM	12776	N	ALA	1908	11.467	-27.004	33.681	1.00	11.34
ATOM	12777	CA	ALA	1908	13.851	-28.026	32.612	1.00	11.08
ATOM	12778	CB	ALA	1908	14.712	-27.455	32.475	1.00	16.78
ATOM	12779	O	ALA	1908	14.258	-28.529	33.739	1.00	11.38
ATOM	12780	O	ALA	1908	14.955	-27.848	34.747	1.00	8.45
ATOM	12781	N	ASN	1909	15.773	-29.759	33.567	1.00	11.47
ATOM	12782	CA	ASN	1909	16.205	-30.302	34.564	1.00	19.53
ATOM	12783	CB	ASN	1909	15.774	-31.027	34.438	1.00	11.90
ATOM	12784	CG	ASN	1909	17.432	-31.812	35.556	1.00	14.93
ATOM	12785	OD1	ASN	1909	14.140	-31.192	36.589	1.00	14.28
ATOM	12786	ND1	ASN	1909	14.807	-32.593	34.428	1.00	19.46
ATOM	12787	O	ASN	1909	15.903	-30.385	33.970	1.00	11.82
ATOM	12788	O	ASN	1909	16.568	-33.566	34.682	1.00	11.44
ATOM	12789	N	MET	1910	15.120	-33.197	33.654	1.00	17.67
ATOM	12790	CA	MET	1910	14.934	-33.391	31.980	1.00	11.33
ATOM	12791	CB	MET	1910	15.178	-31.888	31.799	1.00	11.33
ATOM	12792	CG	MET	1910	15.340	-32.264	30.850	1.00	13.81
ATOM	12793	SD	MET	1910	16.549	-34.076	30.827	1.00	17.86
ATOM	12794	CE	MET	1910	17.887	-34.311	32.927	1.00	28.58
ATOM	12795	O	MET	1910	18.822	-29.716	30.601	1.00	10.32
ATOM	12796	O	MET	1910	17.730	-29.632	30.036	1.00	10.64
ATOM	12797	N	VAL	1911	15.941	-29.233	30.936	1.00	9.77
ATOM	12798	CA	VAL	1911	16.942	-28.561	28.731	1.00	10.49
ATOM	12799	CB	VAL	1911	19.552	-27.149	28.934	1.00	14.32
ATOM	12800	CG1	VAL	1911	19.925	-36.477	27.583	1.00	29.77
ATOM	12801	CG2	VAL	1911	19.784	-26.322	29.924	1.00	16.29
ATOM	12802	O	VAL	1911	19.752	-29.168	27.732	1.00	11.18
ATOM	12803	O	VAL	1911	21.758	-29.989	28.123	1.00	12.97
ATOM	12804	N	LYS	1912	10.304	-29.364	26.535	1.00	11.26
ATOM	12805	CA	LYS	1912	11.019	-30.082	25.480	1.00	11.63
ATOM	12806	CB	LYS	1912	10.088	-30.999	24.712	1.00	11.49
ATOM	12807	CG	LYS	1912	10.806	-31.774	23.593	1.00	13.76
ATOM	12808	CD	LYS	1912	10.027	-33.015	23.160	1.00	15.10
ATOM	12809	CE	LYS	1912	18.742	-33.667	22.415	1.00	17.50
ATOM	12810	NZ	LYS	1912	18.980	-33.003	21.696	1.00	18.50

ATOM	12411	C	LYS	1917	21.697	-29.637	24.522	1.00	19.56
ATOM	12412	O	LYS	1917	20.527	-28.977	24.178	1.00	17.27
ATOM	12413	N	ILE	1917	22.725	-29.308	24.169	1.00	11.16
ATOM	12414	CA	ILE	1917	23.467	-28.761	23.760	1.00	14.22
ATOM	12415	CB	ILE	1917	24.441	-28.335	24.014	1.00	16.27
ATOM	12416	CG2	ILE	1917	25.738	-28.774	24.812	1.00	17.84
ATOM	12417	CG1	ILE	1917	25.463	-28.106	24.911	1.00	18.46
ATOM	12418	CD1	ILE	1917	26.425	-27.376	25.716	1.00	19.67
ATOM	12419	C	ILE	1917	24.835	-29.121	25.217	1.00	17.17
ATOM	12420	O	ILE	1917	24.929	-29.149	25.563	1.00	17.09
ATOM	12421	N	GLU	1917	24.329	-18.671	20.953	1.00	15.40
ATOM	12422	CA	GLU	1917	25.903	-19.192	19.989	1.00	16.14
ATOM	12423	CB	GLU	1917	24.235	-19.127	18.582	1.00	17.13
ATOM	12424	CG	GLU	1917	22.709	-19.427	18.715	1.00	20.79
ATOM	12425	CD	GLU	1917	21.887	-19.391	18.097	1.00	23.35
ATOM	12426	CE1	GLU	1917	22.415	-18.686	17.431	1.00	24.75
ATOM	12427	OE2	GLU	1917	20.967	-18.120	17.121	1.00	31.69
ATOM	12428	C	GLU	1917	26.411	-18.833	19.617	1.00	17.58
ATOM	12429	O	GLU	1917	26.670	-17.636	19.463	1.00	14.70
ATOM	12430	N	GLY	1917	27.971	-19.805	19.517	1.00	16.46
ATOM	12431	CA	GLY	1917	28.776	-19.779	19.387	1.00	18.17
ATOM	12432	C	GLY	1917	29.733	-19.755	19.709	1.00	21.08
ATOM	12433	O	GLY	1917	29.497	-17.233	20.831	1.00	21.39
ATOM	12434	N	GLY	1917	30.939	-19.223	19.364	1.00	23.37
ATOM	12435	CA	GLY	1917	32.036	-17.091	19.662	1.00	27.50
ATOM	12436	C	GLY	1917	32.949	-30.518	20.563	1.00	22.33
ATOM	12437	O	GLY	1917	32.449	-29.836	21.565	1.00	21.33
ATOM	12438	N	GLU	1917	34.218	-30.720	20.813	1.00	22.96
ATOM	12439	CA	GLU	1917	35.178	-30.237	21.877	1.00	22.46
ATOM	12440	CB	GLU	1917	36.608	-30.631	21.276	1.00	26.72
ATOM	12441	CG	GLU	1917	36.939	-32.014	22.017	1.00	33.75
ATOM	12442	CD	GLU	1917	36.567	-31.037	22.494	1.00	31.57
ATOM	12443	CE1	GLU	1917	38.778	-31.190	23.217	1.00	37.45
ATOM	12444	CE2	GLU	1917	39.067	-31.048	22.117	1.00	39.06
ATOM	12445	C	GLU	1917	35.189	-28.738	21.944	1.00	19.95
ATOM	12446	O	GLU	1917	35.694	-28.124	22.617	1.00	18.13
ATOM	12447	N	TRP	1918	34.747	-27.920	21.994	1.00	18.83
ATOM	12448	CA	TRP	1918	34.711	-24.491	21.313	1.00	16.44
ATOM	12449	CB	TRP	1918	34.372	-24.720	21.117	1.00	16.23
ATOM	12450	CG	TRP	1918	32.918	-24.791	19.631	1.00	17.75
ATOM	12451	CD2	TRP	1918	31.940	-24.597	19.621	1.00	17.59
ATOM	12452	CD1	TRP	1918	30.718	-24.106	19.112	1.00	16.90
ATOM	12453	CE3	TRP	1918	31.950	-24.499	21.638	1.00	17.16
ATOM	12454	CE1	TRP	1918	32.275	-26.651	19.893	1.00	18.69
ATOM	12455	NE1	TRP	1918	30.966	-26.300	18.691	1.00	17.49
ATOM	12456	CD2	TRP	1918	29.554	-24.145	18.413	1.00	14.06
ATOM	12457	CD3	TRP	1918	30.662	-22.739	20.717	1.00	17.47
ATOM	12458	CE2	TRP	1918	23.605	-27.171	20.111	1.00	17.12
ATOM	12459	C	TRP	1918	33.857	-24.131	21.463	1.00	19.93
ATOM	12460	O	TRP	1918	34.144	-27.672	20.691	1.00	17.81
ATOM	12461	N	LEU	1919	22.944	-27.613	21.771	1.00	18.91
ATOM	12462	CA	LEU	1919	22.621	-26.561	23.091	1.00	18.16
ATOM	12463	CB	LEU	1919	20.687	-27.434	22.907	1.00	17.35
ATOM	12464	CG	LEU	1919	19.808	-26.856	22.713	1.00	17.11
ATOM	12465	CD1	LEU	1919	18.579	-27.739	21.717	1.00	18.09
ATOM	12466	CD2	LEU	1919	19.477	-25.941	22.194	1.00	16.88
ATOM	12467	C	LEU	1919	22.719	-27.178	21.713	1.00	18.85
ATOM	12468	O	LEU	1919	18.896	-26.939	20.177	1.00	17.57
ATOM	12469	N	VAL	1920	33.685	-27.267	27.179	1.00	18.91
ATOM	12470	CA	VAL	1920	34.189	-27.136	26.868	1.00	18.42
ATOM	12471	CB	VAL	1920	35.582	-26.098	26.273	1.00	16.95
ATOM	12472	CG1	VAL	1920	36.362	-29.125	27.517	1.00	16.97
ATOM	12473	CG2	VAL	1920	35.425	-30.539	27.764	1.00	17.13
ATOM	12474	C	VAL	1920	34.216	-27.866	27.761	1.00	16.97
ATOM	12475	O	VAL	1920	33.718	-27.661	28.809	1.00	15.60
ATOM	12476	N	GLU	1921	34.717	-26.137	26.446	1.00	18.79
ATOM	12477	CA	GLU	1921	34.785	-25.141	26.347	1.00	16.09
ATOM	12478	CB	GLU	1921	35.480	-23.838	26.943	1.00	18.74
ATOM	12479	CG	GLU	1921	35.428	-22.701	26.649	1.00	21.14
ATOM	12480	CD	GLU	1921	36.271	-21.517	27.534	1.00	27.12
ATOM	12481	OE1	GLU	1921	36.105	-21.136	27.214	1.00	24.39
ATOM	12482	OE2	GLU	1921	37.104	-21.045	29.177	1.00	30.38
ATOM	12483	C	GLU	1921	33.373	-24.786	26.935	1.00	15.64
ATOM	12484	O	GLU	1921	33.095	-24.656	30.128	1.00	14.95
ATOM	12485	N	THR	1922	32.478	-24.627	27.971	1.00	16.48
ATOM	12486	CA	THR	1922	31.102	-24.268	28.289	1.00	17.13
ATOM	12487	CB	THR	1922	30.785	-24.674	27.017	1.00	14.39

ATOM	12888	CG1	THR	1922	29.846	-22.893	29.165	1.00	14.42
ATOM	12889	CG2	THR	1922	29.844	-22.753	27.154	1.00	14.45
ATOM	12890	C	THR	1922	30.439	-25.621	29.161	1.00	14.15
ATOM	12891	O	THR	1922	29.259	-24.996	30.136	1.00	14.84
ATOM	12892	N	VAL	1923	29.640	-26.599	28.815	1.00	14.02
ATOM	12893	CA	VAL	1923	30.641	-27.871	29.190	1.00	14.28
ATOM	12894	CB	VAL	1923	30.283	-28.639	28.411	1.00	14.90
ATOM	12895	CG1	VAL	1923	29.870	-29.171	29.418	1.00	14.64
ATOM	12896	CG2	VAL	1923	29.532	-29.039	27.384	1.00	14.39
ATOM	12897	C	VAL	1923	30.631	-27.437	31.100	1.00	15.48
ATOM	12898	O	VAL	1923	29.863	-27.755	31.382	1.00	15.21
ATOM	12899	N	ILE	1924	31.947	-27.533	31.139	1.00	15.37
ATOM	12900	CA	ILE	1924	31.566	-27.406	32.434	1.00	17.25
ATOM	12901	CB	ILE	1924	34.037	-27.354	32.110	1.00	19.46
ATOM	12902	CG	ILE	1924	34.796	-28.433	33.137	1.00	20.81
ATOM	12903	CD	ILE	1924	36.336	-28.325	31.144	1.00	23.38
ATOM	12904	OE1	ILE	1924	36.773	-27.129	31.054	1.00	25.54
ATOM	12905	NE2	ILE	1924	31.063	-29.133	31.175	1.00	18.41
ATOM	12906	C	ILE	1924	31.868	-26.527	32.344	1.00	16.21
ATOM	12907	O	ILE	1924	31.573	-26.811	34.476	1.00	18.27
ATOM	12908	N	MET	1925	31.837	-25.259	32.133	1.00	15.24
ATOM	12909	CA	MET	1925	31.359	-24.133	33.324	1.00	14.73
ATOM	12910	CB	MET	1925	31.634	-22.875	32.321	1.00	17.14
ATOM	12911	CG	MET	1925	33.134	-22.574	32.914	1.00	17.57
ATOM	12912	CD	MET	1925	33.579	-21.081	31.380	1.00	19.95
ATOM	12913	CE	MET	1925	31.411	-19.842	31.196	1.00	22.55
ATOM	12914	C	MET	1925	33.871	-24.267	33.344	1.00	18.19
ATOM	12915	O	MET	1925	29.457	-23.907	35.044	1.00	12.00
ATOM	12916	N	LEU	1926	29.073	-24.133	32.995	1.00	13.48
ATOM	12917	CA	LEU	1926	27.613	-24.863	33.140	1.00	14.33
ATOM	12918	CB	LEU	1926	28.933	-25.433	31.389	1.00	12.37
ATOM	12919	CG	LEU	1926	28.511	-24.363	30.344	1.00	10.67
ATOM	12920	CD	LEU	1926	28.209	-25.073	29.631	1.00	10.48
ATOM	12921	CE	LEU	1926	28.323	-23.579	31.459	1.00	11.81
ATOM	12922	C	LEU	1926	28.333	-25.321	34.195	1.00	15.73
ATOM	12923	O	LEU	1926	28.603	-25.141	35.199	1.00	17.36
ATOM	12924	N	THR	1927	28.063	-26.973	34.343	1.00	17.82
ATOM	12925	CA	THR	1927	27.893	-27.433	35.135	1.00	19.31
ATOM	12926	CB	THR	1927	28.733	-27.733	33.374	1.00	22.11
ATOM	12927	CG1	THR	1927	28.213	-27.351	33.871	1.00	23.96
ATOM	12928	CG2	THR	1927	28.165	-30.241	36.213	1.00	26.37
ATOM	12929	C	THR	1927	28.223	-27.473	36.783	1.00	26.67
ATOM	12930	O	THR	1927	29.483	-27.533	37.731	1.00	19.81
ATOM	12931	N	GLU	1928	28.333	-26.741	36.326	1.00	19.57
ATOM	12932	CA	GLU	1928	28.633	-26.313	38.354	1.00	20.59
ATOM	12933	CB	GLU	1928	31.083	-25.516	38.340	1.00	23.61
ATOM	12934	CG	GLU	1928	31.583	-24.901	37.117	1.00	24.98
ATOM	12935	CD	GLU	1928	31.983	-24.173	37.377	1.00	21.34
ATOM	12936	CE1	GLU	1928	30.813	-25.696	37.487	1.00	28.59
ATOM	12937	CE2	GLU	1928	30.373	-23.253	38.416	1.00	24.69
ATOM	12938	C	GLU	1928	28.643	-25.131	38.349	1.00	18.64
ATOM	12939	O	GLU	1928	28.913	-24.801	39.437	1.00	20.05
ATOM	12940	N	LEU	1929	27.943	-24.513	37.333	1.00	18.94
ATOM	12941	CA	LEU	1929	28.933	-23.533	37.943	1.00	17.92
ATOM	12942	CB	LEU	1929	29.93	-22.433	38.961	1.00	17.47
ATOM	12943	CG	LEU	1929	28.273	-21.543	38.199	1.00	17.99
ATOM	12944	CD	LEU	1929	28.533	-20.493	38.883	1.00	16.91
ATOM	12945	CE	LEU	1929	28.283	-19.953	38.931	1.00	15.81
ATOM	12946	C	ARG	1929	30.933	-25.133	38.153	1.00	17.41
ATOM	12947	NE1	ARG	1929	31.083	-21.853	38.184	1.00	20.43
ATOM	12948	NE2	ARG	1929	31.053	-19.783	38.417	1.00	17.19
ATOM	12949	C	ARG	1929	28.533	-24.133	38.631	1.00	16.01
ATOM	12950	O	ARG	1929	24.523	-23.483	35.724	1.00	15.35
ATOM	12951	N	ALA	1930	28.493	-25.193	38.446	1.00	15.36
ATOM	12952	CA	ALA	1930	24.263	-26.153	38.874	1.00	14.07
ATOM	12953	CB	ALA	1930	28.363	-25.173	38.345	1.00	17.52
ATOM	12954	C	ALA	1930	28.433	-26.613	35.415	1.00	14.90
ATOM	12955	O	ALA	1930	27.303	-27.651	35.355	1.00	12.83
ATOM	12956	N	VAL	1931	28.973	-26.513	38.160	1.00	13.13
ATOM	12957	CA	VAL	1931	28.213	-26.943	38.160	1.00	13.22
ATOM	12958	CB	VAL	1931	23.270	-25.876	35.974	1.00	14.49
ATOM	12959	CG1	VAL	1931	22.323	-26.323	32.829	1.00	11.71
ATOM	12960	CG2	VAL	1931	22.746	-24.133	34.922	1.00	14.16
ATOM	12961	C	VAL	1931	23.753	-28.133	34.492	1.00	13.32
ATOM	12962	O	VAL	1931	24.903	-28.296	34.946	1.00	13.87
ATOM	12963	N	PRO	1932	22.940	-29.503	34.502	1.00	13.80
ATOM	12964	CD	PRO	1932	21.715	-29.506	35.130	1.00	14.21

ATOM	12965	CA	PRO	1937	22.485	-30.937	23.978	1.00	13.33
ATOM	12966	CB	PRO	1937	22.396	-31.596	24.337	1.00	13.25
ATOM	12967	CD	PRO	1937	21.179	-36.791	24.312	1.00	19.65
ATOM	12968	C	PRO	1937	22.210	-30.391	22.196	1.00	11.97
ATOM	12969	N	PRO	1937	21.141	-35.713	21.337	1.00	12.08
ATOM	12970	N	VAL	1933	24.129	-31.013	21.669	1.00	11.35
ATOM	12971	CA	VAL	1933	24.170	-31.369	20.118	1.00	11.25
ATOM	12972	CB	VAL	1933	25.177	-30.143	20.093	1.00	12.56
ATOM	12973	CD1	VAL	1933	25.875	-30.073	28.180	1.00	10.86
ATOM	12974	CD2	VAL	1933	25.634	-32.762	30.411	1.00	10.60
ATOM	12975	C	VAL	1933	24.101	-31.194	23.374	1.00	13.16
ATOM	12976	O	VAL	1933	24.150	-33.173	29.353	1.00	12.41
ATOM	12977	H	CYS	1934	21.413	-33.213	25.311	1.00	11.26
ATOM	12978	CA	CYS	1934	21.156	-33.393	27.174	1.00	11.62
ATOM	12979	CB	CYS	1934	21.321	-33.683	27.171	1.00	11.90
ATOM	12980	C	CYS	1934	21.373	-33.003	25.338	1.00	13.45
ATOM	12981	O	CYS	1934	24.031	-32.393	26.301	1.00	13.27
ATOM	12982	O	CYS	1934	23.377	-33.323	28.139	1.00	12.86
ATOM	12983	N	GLY	1935	24.078	-33.313	23.871	1.00	12.09
ATOM	12984	CA	GLY	1935	23.101	-33.313	23.453	1.00	10.39
ATOM	12985	C	GLY	1935	23.373	-33.363	23.375	1.00	11.09
ATOM	12986	O	GLY	1935	23.343	-34.633	23.654	1.00	12.33
ATOM	12987	N	HIS	1936	23.301	-33.303	23.372	1.00	10.35
ATOM	12988	CA	HIS	1936	24.381	-33.353	21.654	1.00	13.34
ATOM	12989	CB	HIS	1936	23.451	-33.343	20.313	1.00	13.51
ATOM	12990	CG	HIS	1936	22.547	-33.223	19.669	1.00	16.35
ATOM	12991	CD2	HIS	1936	21.321	-33.003	18.393	1.00	17.35
ATOM	12992	ND1	HIS	1936	21.197	-32.713	19.523	1.00	13.36
ATOM	12993	CE1	HIS	1936	20.343	-33.133	18.406	1.00	13.31
ATOM	12994	NE2	HIS	1936	21.389	-33.333	17.321	1.00	29.02
ATOM	12995	C	HIS	1936	21.368	-33.333	19.389	1.00	12.71
ATOM	12996	O	HIS	1936	23.069	-33.333	19.369	1.00	12.89
ATOM	12997	N	LEU	1937	21.321	-33.133	19.382	1.00	13.16
ATOM	12998	CA	LEU	1937	23.361	-33.333	18.387	1.00	13.34
ATOM	12999	CB	LEU	1937	21.394	-33.133	18.197	1.00	12.68
ATOM	13000	CG	LEU	1937	20.333	-33.133	18.384	1.00	13.13
ATOM	13001	CD1	LEU	1937	20.313	-33.133	20.395	1.00	13.18
ATOM	13002	CD2	LEU	1937	20.443	-33.133	19.389	1.00	12.34
ATOM	13003	C	LEU	1937	20.141	-33.133	19.123	1.00	14.83
ATOM	13004	O	LEU	1937	20.101	-33.133	19.174	1.00	12.38
ATOM	13005	N	GLY	1938	23.333	-33.003	19.371	1.00	16.33
ATOM	13006	CA	GLY	1938	23.323	-33.713	14.390	1.00	27.86
ATOM	13007	C	GLY	1938	23.311	-33.673	13.384	1.00	27.14
ATOM	13008	O	GLY	1938	23.441	-34.733	17.466	1.00	27.32
ATOM	13009	N	LEU	1939	23.433	-33.333	13.304	1.00	30.33
ATOM	13010	CA	LEU	1939	23.366	-34.333	13.311	1.00	34.11
ATOM	13011	CB	LEU	1939	21.313	-33.333	11.386	1.00	35.31
ATOM	13012	CG	LEU	1939	21.023	-33.333	11.311	1.00	37.33
ATOM	13013	CD1	LEU	1939	21.406	-33.333	10.322	1.00	35.32
ATOM	13014	CD2	LEU	1939	21.393	-33.333	11.323	1.00	35.31
ATOM	13015	C	LEU	1939	23.116	-33.733	13.420	1.00	36.36
ATOM	13016	O	LEU	1939	21.114	-33.333	14.301	1.00	35.31
ATOM	13017	N	THR	1940	23.700	-33.333	11.345	1.00	38.38
ATOM	13018	CA	THR	1940	23.333	-33.413	13.375	1.00	40.33
ATOM	13019	CB	THR	1940	24.133	-30.333	13.391	1.00	40.35
ATOM	13020	CD1	THR	1940	23.333	-33.333	13.323	1.00	35.33
ATOM	13021	CD2	THR	1940	24.333	-33.333	11.334	1.00	41.32
ATOM	13022	C	THR	1940	21.406	-30.133	13.326	1.00	41.31
ATOM	13023	O	THR	1940	21.333	-33.713	11.379	1.00	42.38
ATOM	13024	N	PRO	1941	21.143	-30.133	13.352	1.00	42.37
ATOM	13025	CA	PRO	1941	20.129	-31.233	13.641	1.00	43.13
ATOM	13026	CB	PRO	1941	20.333	-32.333	11.327	1.00	42.32
ATOM	13027	CG	PRO	1941	18.301	-33.333	11.315	1.00	42.38
ATOM	13028	CD	PRO	1941	18.393	-33.433	14.019	1.00	44.33
ATOM	13029	C	PRO	1941	20.349	-33.233	12.386	1.00	41.34
ATOM	13030	O	PRO	1941	20.198	-27.333	11.311	1.00	41.37
ATOM	13031	N	GLN	1942	21.121	-27.333	13.319	1.00	40.36
ATOM	13032	CA	GLN	1942	21.375	-26.243	13.337	1.00	40.39
ATOM	13033	CB	GLN	1942	21.303	-26.013	15.307	1.00	39.37
ATOM	13034	CG	GLN	1942	20.638	-25.673	16.214	1.00	8.76
ATOM	13035	CD	GLN	1942	21.086	-25.673	17.701	1.00	8.71
ATOM	13036	CE1	GLN	1942	22.393	-24.933	18.953	1.00	35.32
ATOM	13037	NE2	GLN	1942	20.316	-26.233	18.559	1.00	36.70
ATOM	13038	C	GLN	1942	22.450	-25.732	12.366	1.00	40.11
ATOM	13039	O	GLN	1942	22.541	-24.519	12.660	1.00	39.36
ATOM	13040	N	SEP	1943	23.256	-26.673	12.377	1.00	40.02
ATOM	13041	CA	SEP	1943	24.329	-26.281	11.443	1.00	39.90

ATOM	13042	CB	SER	1944	25.137	-25.959	11.861	1.00	40.15
ATOM	13043	CB	SER	1944	25.141	-25.959	13.125	1.00	41.50
ATOM	13044	CB	SER	1944	25.148	-25.959	10.817	1.00	39.60
ATOM	13045	CB	SER	1944	24.884	-25.943	9.194	1.00	38.51
ATOM	13046	N	VAL	1944	22.687	-26.805	9.174	1.00	40.21
ATOM	13047	CA	VAL	1944	22.109	-27.205	8.441	1.00	40.15
ATOM	13048	CB	VAL	1944	20.650	-27.155	8.335	1.00	40.31
ATOM	13049	CG1	VAL	1944	20.140	-28.083	8.408	1.00	40.25
ATOM	13050	CG2	VAL	1944	20.196	-27.947	8.196	1.00	40.12
ATOM	13051	C	VAL	1944	22.794	-26.352	8.204	1.00	40.09
ATOM	13052	O	VAL	1944	22.178	-26.873	8.206	1.00	40.03
ATOM	13053	N	A N	1945	22.807	-25.043	8.331	1.00	40.77
ATOM	13054	CA	A N	1945	21.397	-24.128	8.408	1.00	42.02
ATOM	13055	CB	A N	1945	22.120	-22.681	8.911	1.00	39.36
ATOM	13056	CG	A N	1945	21.634	-22.188	8.018	1.00	38.68
ATOM	13057	CG1	A N	1945	21.065	-22.438	8.005	1.00	38.53
ATOM	13058	ND2	A N	1945	21.176	-22.102	8.244	1.00	38.93
ATOM	13059	C	A N	1945	24.193	-24.136	8.202	1.00	41.74
ATOM	13060	O	A N	1945	25.413	-24.102	8.200	1.00	41.69
ATOM	13061	N	ILE	1946	25.139	-24.174	8.344	1.00	46.06
ATOM	13062	CA	ILE	1946	27.014	-25.014	8.205	1.00	48.85
ATOM	13063	CB	ILE	1946	27.090	-25.187	8.604	1.00	48.09
ATOM	13064	CG2	ILE	1946	29.844	-25.808	8.507	1.00	48.67
ATOM	13065	CG1	ILE	1946	27.476	-24.188	9.609	1.00	47.10
ATOM	13066	CD1	ILE	1946	28.219	-22.944	9.203	1.00	47.47
ATOM	13067	C	ILE	1946	27.294	-26.176	8.306	1.00	51.55
ATOM	13068	O	ILE	1946	29.949	-26.001	8.207	1.00	51.88
ATOM	13069	N	PHE	1947	26.788	-27.554	8.606	1.00	54.57
ATOM	13070	CA	PHE	1947	28.950	-28.551	8.805	1.00	57.12
ATOM	13071	CB	PHE	1947	28.421	-29.570	8.605	1.00	56.02
ATOM	13072	CG	PHE	1947	27.166	-30.023	8.904	1.00	61.39
ATOM	13073	CD1	PHE	1947	28.890	-30.544	8.909	1.00	61.43
ATOM	13074	CD2	PHE	1947	26.461	-29.526	8.111	1.00	61.93
ATOM	13075	CE1	PHE	1947	29.034	-29.767	8.109	1.00	62.57
ATOM	13076	CE2	PHE	1947	27.060	-29.945	10.345	1.00	61.58
ATOM	13077	C2	PHE	1947	28.180	-30.467	10.309	1.00	61.90
ATOM	13078	C	PHE	1947	26.180	-28.407	8.514	1.00	58.09
ATOM	13079	O	PHE	1947	29.884	-28.505	8.405	1.00	58.24
ATOM	13080	N	GLY	1948	24.954	-28.169	8.806	1.00	58.06
ATOM	13081	CA	GLY	1948	24.180	-28.018	8.349	1.00	58.62
ATOM	13082	C	GLY	1948	27.861	-28.561	8.400	1.00	58.00
ATOM	13083	O	GLY	1948	27.884	-28.543	8.408	1.00	58.82
ATOM	13084	N	GLY	1949	22.011	-29.423	8.507	1.00	59.05
ATOM	13085	CA	GLY	1949	21.381	-30.163	8.701	1.00	60.55
ATOM	13086	C	GLY	1949	21.450	-31.124	8.800	1.00	61.51
ATOM	13087	O	GLY	1949	27.028	-30.801	8.904	1.00	61.57
ATOM	13088	N	TYR	1950	28.188	-32.515	8.609	1.00	62.15
ATOM	13089	CA	TYR	1950	29.098	-33.137	8.345	1.00	62.56
ATOM	13090	CB	TYR	1950	19.124	-33.419	8.400	1.00	63.17
ATOM	13091	CC	TYR	1950	18.190	-32.070	8.306	1.00	63.63
ATOM	13092	CD1	TYR	1950	16.128	-31.168	8.702	1.00	64.07
ATOM	13093	CD2	TYR	1950	17.051	-30.124	8.905	1.00	64.05
ATOM	13094	CE1	TYR	1950	19.027	-30.190	8.905	1.00	64.13
ATOM	13095	CE2	TYR	1950	18.098	-30.158	8.209	1.00	64.47
ATOM	13096	CY	TYR	1950	17.041	-29.876	8.205	1.00	65.14
ATOM	13097	OB	TYR	1950	17.000	-28.847	8.307	1.00	65.11
ATOM	13098	O	TYR	1950	21.168	-30.505	8.103	1.00	62.54
ATOM	13099	N	TYR	1950	20.315	-30.170	8.301	1.00	62.07
ATOM	13100	N	LYS	1951	22.422	-35.223	8.504	1.00	62.40
ATOM	13101	CA	LYS	1951	22.898	-36.517	8.601	1.00	62.04
ATOM	13102	CB	LYS	1951	20.874	-35.315	8.919	1.00	62.86
ATOM	13103	CG	LYS	1951	22.160	-35.611	8.721	1.00	64.49
ATOM	13104	CD	LYS	1951	24.500	-35.241	8.648	1.00	65.92
ATOM	13105	CE	LYS	1951	22.882	-34.471	8.542	1.00	66.41
ATOM	13106	NZ	LYS	1951	24.109	-35.991	8.560	1.00	67.31
ATOM	13107	C	LYS	1951	22.179	-37.316	8.100	1.00	60.15
ATOM	13108	O	LYS	1951	24.118	-36.555	8.105	1.00	60.94
ATOM	13109	N	VAL	1952	22.050	-38.630	8.909	1.00	58.89
ATOM	13110	CA	VAL	1952	24.784	-39.511	8.979	1.00	57.24
ATOM	13111	CB	VAL	1952	24.187	-40.975	8.401	1.00	57.00
ATOM	13112	CG1	VAL	1952	24.017	-41.875	8.545	1.00	57.69
ATOM	13113	CG2	VAL	1952	22.866	-41.422	8.344	1.00	56.86
ATOM	13114	C	VAL	1952	25.022	-39.079	8.243	1.00	56.27
ATOM	13115	O	VAL	1952	26.011	-38.917	7.313	1.00	55.83
ATOM	13116	N	GLN	1953	26.055	-38.898	9.517	1.00	54.84
ATOM	13117	CA	GLN	1953	27.095	-38.479	9.607	1.00	53.67
ATOM	13118	CB	GLN	1953	27.303	-37.220	10.841	1.00	53.90

ATOM	18119	CG	GLN	1959	28.181	-39.154	11.183	1.00	55.81
ATOM	18120	CD	GLN	1959	28.182	-39.154	8.850	1.00	56.76
ATOM	18121	OE1	GLN	1959	28.183	-39.154	8.174	1.00	55.89
ATOM	18122	NE2	GLN	1959	30.412	-41.519	9.463	1.00	56.77
ATOM	18123	C	GLN	1962	28.177	-39.154	10.600	1.00	52.67
ATOM	18124	O	GLN	1962	27.917	-40.556	11.110	1.00	52.18
ATOM	18125	N	GLY	1959	28.467	-40.556	10.596	1.00	51.90
ATOM	18126	CA	GLY	1959	28.193	-40.556	11.136	1.00	51.94
ATOM	18127	C	GLY	1959	30.855	-41.691	10.166	1.00	51.75
ATOM	18128	O	GLY	1959	31.612	-42.498	10.664	1.00	51.15
ATOM	18129	N	ARG	1959	37.914	-41.442	8.996	1.00	51.95
ATOM	18130	CA	ARG	1959	31.018	-42.333	7.957	1.00	52.89
ATOM	18131	CP	ARG	1959	30.431	-42.642	6.619	1.00	54.96
ATOM	18132	CG	ARG	1959	28.840	-42.333	6.586	1.00	56.32
ATOM	18133	CD	ARG	1959	28.588	-43.662	6.595	1.00	58.05
ATOM	18134	NE	ARG	1959	27.184	-44.184	6.596	1.00	59.35
ATOM	18135	NH	ARG	1959	28.312	-43.662	5.625	1.00	59.75
ATOM	18136	NH1	ARG	1959	28.783	-42.242	4.554	1.00	59.42
ATOM	18137	NH2	ARG	1959	27.974	-44.733	5.726	1.00	60.10
ATOM	18138	C	ARG	1959	31.575	-42.165	7.795	1.00	52.91
ATOM	18139	O	ARG	1959	33.054	-41.192	7.581	1.00	52.90
ATOM	18140	N	GLY	1959	33.345	-43.326	7.509	1.00	52.80
ATOM	18141	CA	GLY	1959	34.642	-43.290	7.771	1.00	52.49
ATOM	18142	C	GLY	1959	35.420	-41.286	9.101	1.00	51.95
ATOM	18143	O	GLY	1959	34.882	-42.834	10.110	1.00	52.28
ATOM	18144	N	ASP	1959	36.659	-43.287	9.101	1.00	51.06
ATOM	18145	CA	ASP	1959	37.450	-43.841	10.319	1.00	50.18
ATOM	18146	CB	ASP	1959	38.777	-44.553	10.050	1.00	52.74
ATOM	18147	CG	ASP	1959	38.584	-45.974	9.572	1.00	55.34
ATOM	18148	OD1	ASP	1959	37.909	-46.751	10.283	1.00	56.35
ATOM	18149	OD2	ASP	1959	39.139	-46.315	8.489	1.00	57.00
ATOM	18150	C	ASP	1959	37.727	-42.446	10.867	1.00	47.35
ATOM	18151	O	ASP	1959	37.620	-42.209	12.069	1.00	47.47
ATOM	18152	N	GLU	1959	38.087	-41.529	9.657	1.00	45.13
ATOM	18153	CA	GLU	1959	38.387	-40.760	10.578	1.00	43.01
ATOM	18154	CB	GLU	1959	38.677	-39.318	9.117	1.00	45.53
ATOM	18155	CG	GLU	1959	39.190	-37.924	9.419	1.00	46.50
ATOM	18156	CD	GLU	1959	39.353	-38.082	8.174	1.00	51.94
ATOM	18157	OE1	GLU	1959	39.959	-37.583	7.215	1.00	52.74
ATOM	18158	OE2	GLU	1959	38.850	-35.947	5.168	1.00	53.36
ATOM	18159	C	GLU	1959	37.231	-39.540	11.346	1.00	40.27
ATOM	18160	O	GLU	1959	37.380	-39.175	13.313	1.00	37.28
ATOM	18161	N	ALA	1959	36.078	-39.424	10.483	1.00	36.37
ATOM	18162	CA	ALA	1959	34.900	-38.846	11.119	1.00	34.01
ATOM	18163	CB	ALA	1959	33.754	-38.280	10.110	1.00	33.11
ATOM	18164	C	ALA	1959	34.483	-39.682	12.342	1.00	31.93
ATOM	18165	O	ALA	1959	34.047	-39.149	13.313	1.00	31.65
ATOM	18166	N	GLY	1960	34.625	-40.997	11.203	1.00	36.55
ATOM	18167	CA	GLY	1960	34.262	-41.699	13.211	1.00	39.46
ATOM	18168	C	GLY	1960	35.089	-41.676	14.543	1.00	38.48
ATOM	18169	O	GLY	1960	34.554	-41.643	15.633	1.00	37.01
ATOM	18170	N	ASP	1961	36.397	-41.520	14.343	1.00	37.04
ATOM	18171	CA	ASP	1961	37.081	-41.311	15.502	1.00	37.15
ATOM	18172	CB	ASP	1961	38.752	-41.439	13.073	1.00	39.17
ATOM	18173	CG	ASP	1961	39.120	-42.849	14.663	1.00	41.99
ATOM	18174	CD	ASP	1961	39.394	-43.592	15.646	1.00	40.19
ATOM	18175	OE1	ASP	1961	40.143	-43.999	13.934	1.00	43.17
ATOM	18176	O	ASP	1961	39.653	-43.947	16.218	1.00	45.99
ATOM	18177	N	ASP	1961	37.114	-39.805	17.355	1.00	35.23
ATOM	18178	N	GLN	1962	37.391	-38.945	15.501	1.00	34.65
ATOM	18179	CA	GLN	1962	36.643	-37.598	15.603	1.00	34.43
ATOM	18180	CB	GLN	1962	36.401	-38.613	14.644	1.00	35.73
ATOM	18181	CG	GLN	1962	37.223	-36.174	15.095	1.00	38.89
ATOM	18182	CD	GLN	1962	37.400	-34.677	15.912	1.00	31.20
ATOM	18183	OE1	GLN	1962	38.524	-34.690	15.419	1.00	31.16
ATOM	18184	NH2	GLN	1962	37.141	-34.339	17.372	1.00	32.91
ATOM	18185	C	GLN	1962	35.295	-37.556	16.678	1.00	32.32
ATOM	18186	O	GLN	1962	35.267	-36.860	17.691	1.00	30.87
ATOM	18187	N	LEU	1963	34.253	-38.294	16.285	1.00	31.33
ATOM	18188	CA	LEU	1963	33.032	-38.323	17.068	1.00	31.71
ATOM	18189	CB	LEU	1963	31.902	-39.012	16.293	1.00	32.46
ATOM	18190	CG	LEU	1963	31.333	-38.237	15.092	1.00	28.54
ATOM	18191	CD1	LEU	1963	30.208	-39.027	14.450	1.00	28.46
ATOM	18192	CD2	LEU	1963	30.822	-38.868	15.550	1.00	27.56
ATOM	18193	C	LEU	1963	33.274	-39.044	18.392	1.00	20.51
ATOM	18194	O	LEU	1963	32.745	-38.641	19.425	1.00	18.17
ATOM	18195	N	LEU	1964	34.074	-40.109	18.359	1.00	19.90

ATOM	18184	CA	LEU	1964	-41.683	-40.1860	18.478	1.00	18.83
ATOM	18185	CB	LEU	1964	35.293	-42.1967	18.158	1.00	19.20
ATOM	18186	CE	LEU	1964	35.150	-43.3328	20.114	1.00	22.73
ATOM	18187	CH1	LEU	1964	36.408	-44.1736	19.884	1.00	21.76
ATOM	18188	CH2	LEU	1964	34.898	-41.9985	21.188	1.00	21.92
ATOM	18189	C	LEU	1964	35.113	-40.9417	20.513	1.00	18.01
ATOM	18190	O	LEU	1964	34.877	-39.8443	21.264	1.00	18.75
ATOM	18191	N	GER	1965	36.787	-39.1995	19.858	1.00	19.21
ATOM	18192	CA	GER	1965	36.781	-38.1291	20.928	1.00	18.88
ATOM	18193	CB	GER	1965	37.839	-37.5886	19.813	1.00	19.39
ATOM	18194	CG	GER	1965	38.736	-37.691	20.791	1.00	21.10
ATOM	18197	C	GER	1965	36.787	-37.179	21.254	1.00	17.02
ATOM	18198	O	GER	1965	36.132	-36.945	22.350	1.00	15.35
ATOM	18199	N	ASP	1966	35.158	-36.558	20.744	1.00	18.60
ATOM	18200	CA	ASP	1966	34.738	-35.559	21.071	1.00	17.92
ATOM	18201	CB	ASP	1966	33.134	-34.912	19.963	1.00	18.63
ATOM	18202	CG	ASP	1966	34.197	-34.078	18.971	1.00	19.16
ATOM	18203	CH1	ASP	1966	35.154	-33.936	19.251	1.00	24.28
ATOM	18204	CH2	ASP	1966	33.745	-32.944	17.914	1.00	20.44
ATOM	18205	C	ASP	1966	33.778	-33.061	22.170	1.00	15.99
ATOM	18206	O	ASP	1966	33.132	-31.459	23.193	1.00	15.58
ATOM	18207	N	ALA	1967	32.752	-31.263	21.75	1.00	15.46
ATOM	18208	CA	ALA	1967	31.980	-30.889	22.948	1.00	13.99
ATOM	18209	CB	ALA	1967	31.576	-30.264	22.451	1.00	13.81
ATOM	18220	C	ALA	1967	32.703	-31.012	24.280	1.00	14.10
ATOM	18221	O	ALA	1967	32.712	-31.674	25.238	1.00	14.44
ATOM	18222	N	LEU	1968	33.744	-31.430	24.140	1.00	13.09
ATOM	18237	CA	LEU	1968	34.714	-31.690	25.468	1.00	13.85
ATOM	18238	CB	LEU	1968	36.710	-30.434	25.164	1.00	14.52
ATOM	18239	CG	LEU	1968	35.005	-40.946	24.854	1.00	14.84
ATOM	18226	CH1	LEU	1968	37.006	-41.547	24.234	1.00	16.18
ATOM	18227	CH2	LEU	1968	35.009	-41.619	26.706	1.00	17.51
ATOM	18228	C	LEU	1968	35.002	-37.293	26.888	1.00	13.86
ATOM	18229	O	LEU	1968	35.058	-37.117	27.768	1.00	14.68
ATOM	18230	N	ALA	1969	35.732	-36.290	25.157	1.00	14.60
ATOM	18231	CA	ALA	1969	35.072	-34.905	25.569	1.00	14.61
ATOM	18232	CB	ALA	1969	36.110	-34.005	24.833	1.00	14.15
ATOM	18233	C	ALA	1969	34.008	-34.315	26.466	1.00	13.12
ATOM	18234	O	ALA	1969	34.009	-33.604	27.476	1.00	12.79
ATOM	18235	N	LEU	1970	33.788	-34.512	25.908	1.00	15.74
ATOM	18236	CA	LEU	1970	33.800	-33.605	26.302	1.00	14.25
ATOM	18237	CB	LEU	1970	30.880	-34.210	25.863	1.00	15.71
ATOM	18238	CG	LEU	1970	30.880	-33.384	24.312	1.00	16.66
ATOM	18239	CH1	LEU	1970	29.788	-33.811	23.373	1.00	17.51
ATOM	18240	CH2	LEU	1970	30.840	-33.913	24.610	1.00	16.43
ATOM	18241	C	LEU	1970	31.886	-34.661	25.848	1.00	13.86
ATOM	18242	O	LEU	1970	31.774	-33.982	26.824	1.00	12.91
ATOM	18243	N	SLU	1971	31.881	-34.980	27.907	1.00	17.65
ATOM	18244	CA	SLU	1971	31.881	-34.755	29.161	1.00	14.16
ATOM	18245	CB	SLU	1971	31.881	-34.114	28.347	1.00	16.17
ATOM	18246	CG	SLU	1971	31.880	-33.614	30.218	1.00	15.80
ATOM	18247	CH1	SLU	1971	32.714	-40.505	30.907	1.00	15.83
ATOM	18248	CH2	SLU	1971	34.160	-40.808	30.411	1.00	18.87
ATOM	18249	CH3	SLU	1971	34.160	-41.802	30.357	1.00	17.40
ATOM	18250	C	SLU	1971	33.788	-39.215	30.19	1.00	15.18
ATOM	18251	O	SLU	1971	32.865	-38.905	31.18	1.00	13.13
ATOM	18252	N	ALA	1972	34.788	-38.609	28.553	1.00	14.43
ATOM	18253	CA	ALA	1972	35.787	-38.509	30.66	1.00	15.7
ATOM	18254	CB	ALA	1972	36.483	-38.645	30.913	1.00	15.18
ATOM	18255	C	ALA	1972	34.788	-34.111	31.19	1.00	15.67
ATOM	18256	O	ALA	1972	35.111	-33.802	32.328	1.00	17.06
ATOM	18257	N	ALA	1973	34.787	-33.507	30.341	1.00	16.63
ATOM	18258	CA	ALA	1973	33.886	-33.903	30.67	1.00	16.03
ATOM	18259	CB	ALA	1973	33.434	-33.243	29.699	1.00	17.16
ATOM	18260	C	ALA	1973	32.600	-33.304	31.693	1.00	16.25
ATOM	18261	O	ALA	1973	32.400	-30.900	32.351	1.00	16.68
ATOM	18262	N	GLY	1974	31.880	-33.013	31.423	1.00	15.22
ATOM	18263	CA	GLY	1974	30.880	-33.037	32.290	1.00	15.24
ATOM	18264	C	GLY	1974	29.473	-33.542	31.751	1.00	13.22
ATOM	18265	O	GLY	1974	28.448	-33.307	32.008	1.00	13.69
ATOM	18266	N	ALA	1975	29.473	-33.606	30.651	1.00	13.37
ATOM	18267	CA	ALA	1975	28.448	-33.907	30.396	1.00	12.93
ATOM	18268	CB	ALA	1975	28.125	-34.066	28.388	1.00	12.07
ATOM	18269	C	ALA	1975	27.581	-35.243	31.031	1.00	12.54
ATOM	18270	O	ALA	1975	28.364	-36.188	31.104	1.00	11.18
ATOM	18271	N	GLN	1976	26.330	-35.304	31.492	1.00	11.89
ATOM	18272	CA	GLN	1976	25.803	-36.514	32.132	1.00	11.40

ATOM	13277	CB	GLN	1979	25.019	-43.113	31.548	1.00	13.41
ATOM	13278	CG	GLN	1979	25.890	-45.791	31.551	1.00	13.82
ATOM	13279	CH	GLN	1979	25.091	-43.129	31.550	1.00	13.62
ATOM	13280	CB1	GLN	1979	24.747	-43.945	31.551	1.00	13.74
ATOM	13282	NEU	GLN	1979	24.794	-43.747	31.551	1.00	14.90
ATOM	13283	C	GLN	1979	24.901	-43.748	31.556	1.00	11.43
ATOM	13279	C	GLN	1979	24.697	-43.597	31.551	1.00	11.61
ATOM	13280	N	LEU	1977	24.750	-43.542	31.556	1.00	13.84
ATOM	13281	CA	LEU	1977	23.926	-43.733	31.557	1.00	13.72
ATOM	13282	CB	LEU	1977	22.510	-43.145	31.559	1.00	15.93
ATOM	13283	CG	LEU	1977	21.662	-43.134	31.560	1.00	21.02
ATOM	13284	CH1	LEU	1977	20.725	-43.461	31.562	1.00	21.00
ATOM	13285	CH2	LEU	1977	21.419	-43.739	31.563	1.00	23.19
ATOM	13286	C	LEU	1977	24.476	-43.136	31.560	1.00	11.33
ATOM	13287	O	LEU	1977	25.064	-43.356	31.544	1.00	13.24
ATOM	13288	N	LEU	1978	24.215	-43.244	31.564	1.00	11.93
ATOM	13289	CA	LEU	1978	24.673	-43.739	31.572	1.00	13.10
ATOM	13290	CB	LEU	1978	26.006	-43.541	31.561	1.00	13.29
ATOM	13291	CG	LEU	1978	26.473	-43.441	31.562	1.00	16.13
ATOM	13292	CH1	LEU	1978	26.563	-43.721	31.563	1.00	16.64
ATOM	13293	CH2	LEU	1978	27.819	-43.149	31.562	1.00	12.83
ATOM	13294	C	LEU	1978	23.693	-43.711	31.560	1.00	13.27
ATOM	13295	O	LEU	1978	23.217	-43.445	31.564	1.00	13.09
ATOM	13296	N	VAL	1979	23.306	-43.503	31.569	1.00	11.61
ATOM	13297	CA	VAL	1979	22.478	-43.912	31.569	1.00	10.55
ATOM	13298	CB	VAL	1979	21.570	-43.815	31.574	1.00	10.14
ATOM	13299	CG1	VAL	1979	20.773	-43.968	31.572	1.00	10.01
ATOM	13300	CG2	VAL	1979	20.301	-43.511	31.565	1.00	9.21
ATOM	13301	C	VAL	1979	23.573	-43.699	31.566	1.00	10.11
ATOM	13302	O	VAL	1979	24.106	-43.774	31.567	1.00	13.15
ATOM	13303	N	LEU	1980	23.118	-43.714	31.568	1.00	12.53
ATOM	13304	CA	LEU	1980	23.813	-43.147	31.569	1.00	14.61
ATOM	13305	CB	LEU	1980	24.510	-43.913	31.573	1.00	16.21
ATOM	13306	CG	LEU	1980	25.859	-43.649	31.579	1.00	23.52
ATOM	13307	CH1	LEU	1980	26.138	-43.498	31.588	1.00	17.71
ATOM	13308	CH2	LEU	1980	26.875	-43.694	31.580	1.00	18.45
ATOM	13309	C	LEU	1980	22.747	-43.616	31.586	1.00	13.13
ATOM	13310	O	LEU	1980	21.811	-43.511	31.580	1.00	11.63
ATOM	13311	N	GLU	1981	22.886	-43.586	31.580	1.00	14.35
ATOM	13312	CA	GLU	1981	21.893	-43.528	31.581	1.00	13.01
ATOM	13313	CB	GLU	1981	21.158	-43.514	31.589	1.00	13.80
ATOM	13314	CG	GLU	1981	20.441	-43.511	31.584	1.00	16.75
ATOM	13315	CH	GLU	1981	19.651	-43.545	31.587	1.00	23.80
ATOM	13316	CH1	GLU	1981	20.107	-43.584	31.589	1.00	21.09
ATOM	13317	CH2	GLU	1981	18.493	-43.492	31.581	1.00	26.95
ATOM	13318	C	GLU	1981	22.404	-43.526	31.589	1.00	17.13
ATOM	13319	O	GLU	1981	23.408	-43.580	31.587	1.00	18.47
ATOM	13320	N	PYS	1982	21.718	-43.583	31.582	1.00	17.94
ATOM	13321	CA	PYS	1982	20.933	-43.532	31.583	1.00	19.61
ATOM	13322	CB	PYS	1982	21.588	-43.559	31.586	1.00	19.86
ATOM	13323	CG	PYS	1982	19.711	-43.556	31.580	1.00	21.77
ATOM	13324	C	PYS	1982	23.154	-43.547	31.583	1.00	20.16
ATOM	13325	O	PYS	1982	24.179	-43.534	31.586	1.00	21.64
ATOM	13326	N	VAL	1983	23.980	-43.547	31.580	1.00	23.53
ATOM	13327	CA	VAL	1983	23.138	-43.539	31.584	1.00	21.30
ATOM	13328	CB	VAL	1983	26.105	-43.639	31.582	1.00	23.68
ATOM	13329	CG1	VAL	1983	25.549	-43.597	31.587	1.00	24.53
ATOM	13330	CG2	VAL	1983	27.573	-43.557	31.581	1.00	26.35
ATOM	13331	C	VAL	1983	25.551	-43.581	31.584	1.00	21.11
ATOM	13332	O	VAL	1983	24.610	-43.809	31.611	1.00	19.54
ATOM	13333	N	PRO	1984	26.787	-43.450	31.595	1.00	23.58
ATOM	13334	CD	PRO	1984	27.550	-43.820	31.592	1.00	23.46
ATOM	13335	CA	PRO	1984	26.590	-43.898	31.594	1.00	26.82
ATOM	13336	CB	PRO	1984	27.718	-43.136	31.592	1.00	23.68
ATOM	13337	CG	PRO	1984	28.585	-43.955	31.597	1.00	24.56
ATOM	13338	C	PRO	1984	26.256	-43.667	31.603	1.00	19.62
ATOM	13339	O	PRO	1984	26.897	-43.138	31.610	1.00	19.80
ATOM	13340	N	VAL	1985	25.551	-43.555	31.608	1.00	18.79
ATOM	13341	CA	VAL	1985	25.336	-43.558	31.605	1.00	19.62
ATOM	13342	CB	VAL	1985	24.558	-43.855	31.604	1.00	20.60
ATOM	13343	CG1	VAL	1985	24.312	-43.691	31.602	1.00	20.17
ATOM	13344	CG2	VAL	1985	23.276	-43.514	31.614	1.00	17.11
ATOM	13345	C	VAL	1985	26.634	-43.680	31.609	1.00	20.44
ATOM	13346	O	VAL	1985	26.732	-43.931	31.616	1.00	19.57
ATOM	13347	N	GLU	1986	27.630	-43.583	31.612	1.00	20.52
ATOM	13348	CA	GLU	1986	28.907	-43.800	31.602	1.00	21.16
ATOM	13349	CB	GLU	1986	29.858	-43.522	31.605	1.00	23.66

ATOM	13450	CH	GLU	1994	29.427	-50.077	12.168	1.00	30.18
ATOM	13451	HO	GLU	1994	29.113	-50.765	11.822	1.00	31.01
ATOM	13452	OH1	GLU	1994	27.968	-51.957	12.182	1.00	34.01
ATOM	13453	OH	GLU	1994	27.251	-50.116	11.167	1.00	32.54
ATOM	13454	C	GLN	1994	28.573	-48.662	13.453	1.00	34.14
ATOM	13455	C	GLN	1994	30.213	-46.954	14.485	1.00	36.21
ATOM	13456	N	LEU	1997	29.433	-47.440	14.953	1.00	34.82
ATOM	13457	CA	LEU	1997	30.032	-46.288	15.629	1.00	39.57
ATOM	13458	CG	LEU	1997	29.472	-45.039	14.743	1.00	31.80
ATOM	13459	OG	LEU	1997	31.132	-41.044	14.841	1.00	34.62
ATOM	13460	HH	LEU	1997	30.711	-41.716	14.233	1.00	34.77
ATOM	13461	HO1	LEU	1997	31.146	-43.819	14.122	1.00	37.37
ATOM	13462	C	LEU	1997	29.179	-45.015	16.990	1.00	39.14
ATOM	13463	O	LEU	1997	29.488	-46.704	17.992	1.00	39.07
ATOM	13464	N	ALA	1994	27.951	-46.119	16.679	1.00	37.69
ATOM	13465	CA	ALA	1994	27.122	-45.953	18.496	1.00	36.77
ATOM	13466	CB	ALA	1994	27.643	-46.033	17.686	1.00	38.29
ATOM	13467	C	ALA	1994	27.317	-46.914	19.131	1.00	37.24
ATOM	13468	O	ALA	1994	27.800	-48.633	20.129	1.00	35.24
ATOM	13469	N	LYS	1994	27.447	-44.111	18.690	1.00	38.45
ATOM	13470	CA	LYS	1994	28.263	-44.233	19.190	1.00	40.98
ATOM	13471	CB	LYS	1994	28.561	-50.433	18.421	1.00	35.15
ATOM	13472	CG	LYS	1994	27.180	-50.977	17.375	1.00	30.44
ATOM	13473	CH	LYS	1994	27.073	-50.164	17.738	1.00	33.35
ATOM	13474	CH	LYS	1994	26.763	-51.561	15.368	1.00	34.91
ATOM	13475	NE	LYS	1994	27.197	-53.555	15.700	1.00	37.47
ATOM	13476	C	LYS	1994	29.551	-47.731	20.109	1.00	39.44
ATOM	13477	O	LYS	1994	29.657	-47.354	21.323	1.00	40.34
ATOM	13478	N	ARG	1994	29.539	-47.361	19.103	1.00	38.82
ATOM	13479	CA	ARG	1994	30.133	-47.957	20.717	1.00	38.71
ATOM	13480	CB	ARG	1994	30.757	-47.474	18.172	1.00	33.33
ATOM	13481	CG	ARG	1994	31.157	-47.610	19.159	1.00	39.11
ATOM	13482	CD	ARG	1994	29.120	-46.781	18.249	1.00	31.00
ATOM	13483	NE	ARG	1994	31.739	-46.873	16.841	1.00	33.95
ATOM	13484	CZ	ARG	1994	29.331	-46.132	15.871	1.00	34.97
ATOM	13485	NH1	ARG	1994	28.747	-47.350	14.155	1.00	34.80
ATOM	13486	NH2	ARG	1994	28.411	-47.210	14.818	1.00	35.67
ATOM	13487	C	ARG	1994	31.691	-47.343	21.732	1.00	37.34
ATOM	13488	O	ARG	1994	32.293	-47.967	22.115	1.00	36.47
ATOM	13489	N	ILE	1991	30.878	-47.837	20.344	1.00	35.72
ATOM	13490	CA	ILE	1991	30.663	-47.713	21.847	1.00	34.45
ATOM	13491	CB	ILE	1991	29.863	-47.386	20.897	1.00	33.43
ATOM	13492	CG2	ILE	1991	29.804	-47.368	21.887	1.00	35.16
ATOM	13493	CG1	ILE	1991	30.167	-47.673	19.767	1.00	33.74
ATOM	13494	HD1	ILE	1991	30.131	-47.891	18.466	1.00	35.99
ATOM	13495	C	ILE	1991	29.816	-47.037	22.933	1.00	35.45
ATOM	13496	O	ILE	1991	30.802	-47.673	24.029	1.00	34.39
ATOM	13497	N	THR	1991	28.654	-47.877	22.799	1.00	34.96
ATOM	13498	CA	THR	1991	28.067	-47.281	23.963	1.00	34.13
ATOM	13499	CB	THR	1991	28.114	-47.643	23.547	1.00	35.10
ATOM	13500	OG1	THR	1991	28.016	-47.199	21.768	1.00	34.82
ATOM	13501	OG2	THR	1991	28.991	-47.411	24.919	1.00	37.07
ATOM	13502	C	THR	1991	28.897	-47.171	24.927	1.00	36.86
ATOM	13503	O	THR	1991	28.761	-47.643	26.141	1.00	37.95
ATOM	13504	N	GLU	1994	29.757	-48.077	24.371	1.00	37.05
ATOM	13505	CA	GLU	1994	30.177	-48.869	25.135	1.00	37.12
ATOM	13506	CB	GLU	1994	31.088	-50.463	24.411	1.00	37.19
ATOM	13507	CG	GLU	1994	29.891	-50.871	23.681	1.00	37.97
ATOM	13508	CD	GLU	1994	30.491	-51.101	23.215	1.00	39.74
ATOM	13509	OE1	GLU	1994	31.634	-51.153	22.646	1.00	37.85
ATOM	13510	OE2	GLU	1994	29.695	-50.050	22.851	1.00	31.62
ATOM	13511	C	GLU	1994	31.561	-48.077	25.781	1.00	39.25
ATOM	13512	O	GLU	1994	32.123	-48.441	26.814	1.00	39.28
ATOM	13513	N	ALA	1994	32.131	-47.989	25.115	1.00	37.41
ATOM	13514	CA	ALA	1994	32.257	-47.178	25.544	1.00	38.10
ATOM	13515	CB	ALA	1994	33.820	-47.387	24.359	1.00	38.09
ATOM	13516	C	ALA	1994	32.888	-47.234	26.765	1.00	38.12
ATOM	13517	O	ALA	1994	33.716	-44.928	27.581	1.00	39.20
ATOM	13518	N	LEU	1995	31.647	-44.770	26.708	1.00	37.31
ATOM	13519	CA	LEU	1995	31.191	-45.841	27.741	1.00	37.19
ATOM	13520	CB	LEU	1995	30.222	-42.821	27.145	1.00	37.68
ATOM	13521	CG	LEU	1995	30.754	-41.776	26.175	1.00	38.73
ATOM	13522	CD1	LEU	1995	29.641	-40.764	25.924	1.00	37.73
ATOM	13523	CD2	LEU	1995	31.976	-41.081	26.718	1.00	34.11
ATOM	13524	C	LEU	1995	30.514	-44.507	28.934	1.00	35.56
ATOM	13525	O	LEU	1995	29.807	-45.496	28.766	1.00	37.28
ATOM	13526	N	ALA	1996	30.739	-43.942	30.106	1.00	35.73

ATOM	13427	CA	ALA	1997	30.129	-44.435	31.404	1.00	15.27
ATOM	13428	CB	ALA	1997	30.046	-44.020	31.541	1.00	15.65
ATOM	13429	C	ALA	1997	29.727	-43.876	31.467	1.00	14.70
ATOM	13430	H	ALA	1997	29.389	-44.165	31.871	1.00	14.44
ATOM	13431	N	ILE	1997	28.575	-43.175	30.484	1.00	14.39
ATOM	13432	CA	ILE	1997	28.266	-43.179	30.446	1.00	14.39
ATOM	13433	CB	ILE	1997	28.321	-43.179	30.633	1.00	14.71
ATOM	13434	CG	ILE	1997	28.184	-43.179	31.731	1.00	10.02
ATOM	13435	CG1	ILE	1997	28.092	-40.111	29.749	1.00	11.89
ATOM	13436	CD1	ILE	1997	28.068	-38.778	28.834	1.00	13.06
ATOM	13437	C	ILE	1997	28.335	-41.735	29.809	1.00	13.03
ATOM	13438	O	ILE	1997	28.782	-41.735	29.875	1.00	12.93
ATOM	13439	N	LEU	1998	27.018	-43.111	31.111	1.00	13.35
ATOM	13440	CD	LEU	1998	26.261	-41.730	31.756	1.00	10.00
ATOM	13441	CA	LEU	1998	26.108	-41.730	29.113	1.00	12.65
ATOM	13442	CB	LEU	1998	26.745	-41.730	29.813	1.00	13.84
ATOM	13443	CG	LEU	1998	27.895	-41.730	30.788	1.00	18.97
ATOM	13444	C	LEU	1998	26.115	-41.730	27.764	1.00	12.72
ATOM	13445	O	LEU	1998	26.140	-41.730	27.719	1.00	12.83
ATOM	13446	N	VAL	1999	27.890	-41.730	29.721	1.00	11.68
ATOM	13447	CA	VAL	1999	27.850	-41.730	29.776	1.00	11.14
ATOM	13448	CB	VAL	1999	26.972	-41.730	24.361	1.00	13.39
ATOM	13449	CG1	VAL	1999	26.829	-41.730	23.061	1.00	11.88
ATOM	13450	CG2	VAL	1999	26.338	-41.730	25.061	1.00	13.61
ATOM	13451	C	VAL	1999	27.482	-41.730	24.784	1.00	12.68
ATOM	13452	O	VAL	1999	27.064	-41.730	24.757	1.00	11.67
ATOM	13453	N	ILE	2000	27.788	-41.730	24.346	1.00	12.00
ATOM	13454	CA	ILE	2000	29.549	-41.730	27.772	1.00	10.42
ATOM	13455	CB	ILE	2000	19.517	-40.764	24.362	1.00	11.32
ATOM	13456	CG2	ILE	2000	19.190	-40.764	23.645	1.00	14.54
ATOM	13457	CG1	ILE	2000	19.356	-40.764	25.869	1.00	12.67
ATOM	13458	CD1	ILE	2000	18.621	-38.708	26.580	1.00	14.64
ATOM	13459	C	ILE	2000	20.562	-41.667	22.265	1.00	11.37
ATOM	13460	O	ILE	2000	21.140	-40.682	21.814	1.00	12.18
ATOM	13461	N	GLY	2001	20.071	-41.667	21.476	1.00	9.23
ATOM	13462	CA	GLY	2001	20.114	-41.667	20.447	1.00	19.42
ATOM	13463	C	GLY	2001	18.845	-41.667	19.274	1.00	19.45
ATOM	13464	O	GLY	2001	17.571	-41.667	19.342	1.00	18.75
ATOM	13465	N	ILE	2002	18.004	-41.667	18.085	1.00	12.48
ATOM	13466	CA	ILE	2002	17.945	-41.667	18.149	1.00	12.80
ATOM	13467	CB	ILE	2002	17.947	-41.667	18.214	1.00	15.11
ATOM	13468	CG2	ILE	2002	18.479	-41.667	17.272	1.00	17.13
ATOM	13469	CG1	ILE	2002	16.884	-41.667	16.101	1.00	16.16
ATOM	13470	CD1	ILE	2002	16.206	-41.667	16.103	1.00	21.78
ATOM	13471	C	ILE	2002	18.812	-41.667	18.812	1.00	14.35
ATOM	13472	O	ILE	2002	18.812	-41.667	18.812	1.00	14.35
ATOM	13473	N	GLY	2003	18.272	-41.667	18.145	1.00	13.78
ATOM	13474	CA	GLY	2003	18.819	-41.667	18.927	1.00	13.18
ATOM	13475	C	GLY	2003	20.043	-41.667	14.160	1.00	13.71
ATOM	13476	O	GLY	2003	20.102	-41.667	18.281	1.00	16.64
ATOM	13477	N	ALA	2004	20.481	-41.667	18.347	1.00	14.45
ATOM	13478	CA	ALA	2004	20.361	-41.667	18.671	1.00	15.11
ATOM	13479	CB	ALA	2004	20.427	-41.667	18.671	1.00	16.07
ATOM	13480	C	ALA	2004	20.771	-41.667	18.671	1.00	15.54
ATOM	13481	O	ALA	2004	20.771	-41.667	18.671	1.00	15.51
ATOM	13482	N	GLY	2005	20.771	-41.667	18.671	1.00	16.11
ATOM	13483	CA	GLY	2005	20.148	-41.667	16.633	1.00	14.60
ATOM	13484	C	GLY	2005	20.175	-41.667	17.471	1.00	15.86
ATOM	13485	O	GLY	2005	20.175	-41.667	18.311	1.00	16.19
ATOM	13486	N	ASN	2006	18.347	-41.667	17.773	1.00	14.74
ATOM	13487	CA	ASN	2006	18.454	-41.667	18.150	1.00	14.81
ATOM	13488	CB	ASN	2006	18.552	-41.667	18.983	1.00	14.04
ATOM	13489	CG	ASN	2006	18.300	-41.667	18.712	1.00	12.52
ATOM	13490	CD1	ASN	2006	18.768	-41.667	18.870	1.00	16.70
ATOM	13491	ND2	ASN	2006	20.521	-41.667	18.232	1.00	12.06
ATOM	13492	C	ASN	2006	20.610	-41.667	20.094	1.00	14.16
ATOM	13493	O	ASN	2006	20.403	-41.667	21.183	1.00	15.18
ATOM	13494	N	VAL	2007	21.817	-41.667	19.763	1.00	14.84
ATOM	13495	CA	VAL	2007	23.092	-41.667	20.534	1.00	18.08
ATOM	13496	CB	VAL	2007	21.277	-41.667	19.877	1.00	18.49
ATOM	13497	CG1	VAL	2007	20.448	-41.667	20.490	1.00	25.46
ATOM	13498	CG2	VAL	2007	21.071	-41.667	18.431	1.00	22.41
ATOM	13499	C	VAL	2007	23.167	-41.667	21.649	1.00	16.08
ATOM	13500	O	VAL	2007	23.970	-41.667	22.517	1.00	14.59
ATOM	13501	N	THR	2008	21.418	-41.667	21.519	1.00	13.91
ATOM	13502	CA	THR	2008	22.909	-41.667	22.517	1.00	13.24
ATOM	13503	CB	THR	2008	21.992	-41.667	21.992	1.00	12.91

ATOM	13504	CG1	THR	2008	18.670	-49.760	21.417	1.00	13.88
ATOM	13505	CG2	THR	2008	17.341	-49.703	21.201	1.00	14.51
ATOM	13506	C	THR	2008	21.242	-49.523	22.839	1.00	13.64
ATOM	13507	O	THR	2008	20.956	-48.470	24.847	1.00	15.42
ATOM	13508	N	ASP	2009	21.600	-46.556	24.925	1.00	13.00
ATOM	13509	CA	ASP	2009	21.326	-47.071	26.205	1.00	12.92
ATOM	13510	CB	ASP	2009	22.064	-46.350	27.337	1.00	13.27
ATOM	13511	CG	ASP	2009	23.551	-46.681	27.465	1.00	14.17
ATOM	13512	CD1	ASP	2009	23.398	-47.849	27.650	1.00	15.47
ATOM	13513	CD2	ASP	2009	24.362	-45.779	27.693	1.00	14.16
ATOM	13514	C	ASP	2009	19.359	-46.652	26.202	1.00	13.91
ATOM	13515	O	ASP	2009	19.335	-47.255	26.545	1.00	14.59
ATOM	13516	N	GLY	2010	19.542	-45.658	25.587	1.00	14.50
ATOM	13517	CA	GLY	2010	18.172	-45.181	25.130	1.00	13.27
ATOM	13518	C	GLY	2010	17.329	-44.764	23.875	1.00	11.32
ATOM	13519	O	GLY	2010	18.700	-44.728	23.903	1.00	11.28
ATOM	13520	N	GLN	2011	16.561	-44.477	23.644	1.00	11.11
ATOM	13521	CA	GLN	2011	14.291	-44.622	22.325	1.00	10.95
ATOM	13522	CB	GLN	2011	15.211	-45.122	21.706	1.00	12.17
ATOM	13523	CG	GLN	2011	15.920	-46.476	21.376	1.00	10.38
ATOM	13524	CD	GLN	2011	16.387	-46.262	20.303	1.00	9.79
ATOM	13525	OE1	GLN	2011	16.317	-45.508	19.344	1.00	12.91
ATOM	13526	NE2	GLN	2011	18.087	-46.986	20.445	1.00	12.26
ATOM	13527	C	GLN	2011	15.254	-42.755	22.437	1.00	11.93
ATOM	13528	O	GLN	2011	14.647	-42.495	23.451	1.00	9.84
ATOM	13529	N	ILE	2012	15.200	-41.023	21.777	1.00	13.12
ATOM	13530	CA	ILE	2012	14.184	-40.831	21.307	1.00	16.32
ATOM	13531	CB	ILE	2012	15.220	-39.563	21.590	1.00	20.22
ATOM	13532	CG2	ILE	2012	16.164	-39.279	20.451	1.00	19.95
ATOM	13533	CG1	ILE	2012	14.301	-38.371	21.851	1.00	22.75
ATOM	13534	CD1	ILE	2012	14.957	-37.271	22.672	1.00	20.84
ATOM	13535	C	ILE	2012	13.300	-40.764	19.951	1.00	18.75
ATOM	13536	O	ILE	2012	14.240	-41.203	18.979	1.00	17.43
ATOM	13537	N	LEU	2013	12.479	-40.250	19.942	1.00	19.42
ATOM	13538	CA	LEU	2013	11.740	-40.120	18.700	1.00	23.65
ATOM	13539	CB	LEU	2013	10.924	-41.350	18.419	1.00	26.87
ATOM	13540	CG	LEU	2013	11.221	-41.100	17.114	1.00	28.56
ATOM	13541	CD1	LEU	2013	10.177	-41.180	16.982	1.00	27.58
ATOM	13542	CD2	LEU	2013	11.100	-41.143	15.900	1.00	28.97
ATOM	13543	C	LEU	2013	10.831	-39.303	19.781	1.00	24.10
ATOM	13544	O	LEU	2013	10.337	-39.180	19.800	1.00	19.94
ATOM	13545	N	VAL	2014	10.590	-38.357	17.572	1.00	23.42
ATOM	13546	CA	VAL	2014	8.714	-38.180	17.420	1.00	22.95
ATOM	13547	CB	VAL	2014	8.891	-36.500	16.059	1.00	25.58
ATOM	13548	CG1	VAL	2014	8.900	-37.340	15.997	1.00	25.64
ATOM	13549	CG2	VAL	2014	11.310	-37.989	15.898	1.00	29.40
ATOM	13550	C	VAL	2014	8.310	-37.732	17.399	1.00	19.50
ATOM	13551	O	VAL	2014	7.917	-37.573	16.684	1.00	17.57
ATOM	13552	N	MET	2015	7.553	-37.273	16.383	1.00	16.86
ATOM	13553	CA	MET	2015	6.139	-37.712	16.687	1.00	15.75
ATOM	13554	CB	MET	2015	5.567	-37.073	19.411	1.00	13.74
ATOM	13555	CG	MET	2015	5.481	-37.510	19.341	1.00	14.95
ATOM	13556	CD	MET	2015	3.933	-37.660	20.457	1.00	14.12
ATOM	13557	CE	MET	2015	2.738	-37.770	19.379	1.00	13.77
ATOM	13558	C	MET	2015	5.321	-37.140	17.491	1.00	15.50
ATOM	13559	O	MET	2015	4.460	-37.233	17.159	1.00	16.99
ATOM	13560	N	HIS	2016	5.601	-36.411	16.721	1.00	13.72
ATOM	13561	CA	HIS	2016	4.804	-36.111	15.327	1.00	15.08
ATOM	13562	CB	HIS	2016	5.115	-34.733	15.005	1.00	15.69
ATOM	13563	CG	HIS	2016	4.600	-35.654	15.415	1.00	14.26
ATOM	13564	CD2	HIS	2016	5.132	-35.129	17.343	1.00	11.38
ATOM	13565	ND1	HIS	2016	3.330	-35.146	15.393	1.00	15.21
ATOM	13566	CE1	HIS	2016	3.032	-35.345	16.333	1.00	13.82
ATOM	13567	NE2	HIS	2016	4.170	-32.313	17.533	1.00	16.57
ATOM	13568	C	HIS	2016	4.733	-37.221	14.462	1.00	16.85
ATOM	13569	O	HIS	2016	4.035	-37.462	13.653	1.00	17.99
ATOM	13570	N	ASP	2017	6.143	-37.883	14.455	1.00	17.44
ATOM	13571	CA	ASP	2017	6.353	-38.967	13.435	1.00	22.03
ATOM	13572	CB	ASP	2017	7.350	-39.142	13.177	1.00	23.41
ATOM	13573	CG	ASP	2017	6.440	-37.954	12.431	1.00	27.95
ATOM	13574	CD1	ASP	2017	7.857	-37.543	11.493	1.00	27.29
ATOM	13575	CD2	ASP	2017	6.483	-37.442	12.873	1.00	26.63
ATOM	13576	C	ASP	2017	5.817	-40.278	14.079	1.00	21.90
ATOM	13577	O	ASP	2017	5.254	-41.105	13.357	1.00	23.38
ATOM	13578	N	ALA	2018	5.986	-40.454	15.333	1.00	22.26
ATOM	13579	CA	ALA	2018	5.533	-41.661	16.083	1.00	22.32
ATOM	13580	CB	ALA	2018	5.940	-41.585	17.559	1.00	23.61

ATOM	13581	C	ALA	2018	4.047	-41.923	15.659	1.00	24.11
ATOM	13582	O	ALA	2018	3.597	-43.064	16.085	1.00	15.81
ATOM	13583	N	PHF	2019	3.255	-40.871	15.711	1.00	21.81
ATOM	13584	CA	PHF	2019	1.807	-41.011	15.361	1.00	22.15
ATOM	13585	CB	PHE	2019	1.080	-43.151	16.356	1.00	17.71
ATOM	13586	CG	PHE	2019	1.580	-40.355	17.099	1.00	24.17
ATOM	13587	CD1	PHE	2019	1.717	-41.638	16.317	1.00	24.31
ATOM	13588	CE1	PHE	2019	1.635	-33.621	16.798	1.00	25.31
ATOM	13589	CE1	PHE	2019	2.207	-41.843	16.837	1.00	25.08
ATOM	13590	CE2	PHE	2019	2.426	-33.463	16.651	1.00	25.85
ATOM	13591	CZ	PHE	2019	2.561	-40.353	20.593	1.00	26.24
ATOM	13592	C	PHE	2019	1.329	-40.637	14.155	1.00	21.16
ATOM	13593	C	PHE	2019	0.156	-49.826	13.647	1.00	23.31
ATOM	13594	N	GLY	2020	2.242	-40.658	13.194	1.00	23.65
ATOM	13595	CA	GLY	2020	1.879	-40.324	11.809	1.00	24.25
ATOM	13596	C	GLY	2020	1.197	-38.983	11.830	1.00	23.30
ATOM	13597	O	GLY	2020	0.433	-33.291	10.706	1.00	24.31
ATOM	13598	N	ILE	2021	1.447	-38.044	12.570	1.00	22.12
ATOM	13599	CA	ILE	2021	0.921	-36.731	12.468	1.00	19.95
ATOM	13600	CB	ILE	2021	0.076	-35.917	13.750	1.00	18.55
ATOM	13601	CG2	ILE	2021	0.183	-34.503	14.595	1.00	18.25
ATOM	13602	CG1	ILE	2021	0.168	-36.390	14.712	1.00	17.77
ATOM	13603	CD1	ILE	2021	0.185	-36.381	14.319	1.00	15.40
ATOM	13604	C	ILE	2021	1.447	-35.961	11.300	1.00	20.77
ATOM	13605	O	ILE	2021	0.738	-35.347	10.502	1.00	18.45
ATOM	13606	N	THR	2022	2.771	-36.904	11.194	1.00	22.40
ATOM	13607	CA	THR	2022	3.475	-35.315	10.120	1.00	25.37
ATOM	13608	CB	THR	2022	4.385	-35.264	10.385	1.00	27.00
ATOM	13609	CG1	THR	2022	5.517	-36.600	10.373	1.00	32.73
ATOM	13610	CG2	THR	2022	5.162	-34.841	11.735	1.00	26.74
ATOM	13611	C	THR	2022	3.240	-35.372	8.765	1.00	27.71
ATOM	13612	O	THR	2022	3.208	-37.203	8.663	1.00	26.18
ATOM	13613	N	GLY	2023	3.078	-35.147	7.738	1.00	29.75
ATOM	13614	CA	GLY	2023	2.854	-35.620	6.381	1.00	36.68
ATOM	13615	C	GLY	2023	2.624	-37.111	6.213	1.00	40.35
ATOM	13616	O	GLY	2023	1.665	-37.666	6.754	1.00	41.97
ATOM	13617	N	GLY	2024	3.503	-37.765	5.458	1.00	41.61
ATOM	13618	CA	GLY	2024	3.364	-38.194	5.246	1.00	45.00
ATOM	13619	C	GLY	2024	4.675	-38.899	4.961	1.00	43.33
ATOM	13620	O	GLY	2024	4.750	-38.125	5.912	1.00	44.64
ATOM	13621	N	HIS	2025	5.712	-39.125	4.664	1.00	42.93
ATOM	13622	CA	HIS	2025	7.031	-39.680	4.374	1.00	42.66
ATOM	13623	CB	HIS	2025	7.612	-38.976	3.151	1.00	46.48
ATOM	13624	CG	HIS	2025	7.432	-37.484	3.161	1.00	50.68
ATOM	13625	CD2	HIS	2025	6.739	-36.676	2.337	1.00	52.17
ATOM	13626	ND1	HIS	2025	8.001	-38.669	4.112	1.00	52.29
ATOM	13627	CE1	HIS	2025	7.663	-39.416	3.872	1.00	50.74
ATOM	13628	NE2	HIS	2025	6.655	-39.392	2.801	1.00	53.69
ATOM	13629	C	HIS	2025	7.983	-39.543	3.563	1.00	39.04
ATOM	13630	O	HIS	2025	8.882	-37.709	3.557	1.00	38.34
ATOM	13631	N	ILE	2026	7.750	-38.381	3.582	1.00	35.71
ATOM	13632	CA	ILE	2026	8.638	-38.350	2.771	1.00	32.13
ATOM	13633	CB	ILE	2026	9.940	-38.145	2.927	1.00	35.30
ATOM	13634	CG	ILE	2026	8.872	-38.598	3.309	1.00	35.60
ATOM	13635	CG1	ILE	2026	7.992	-38.612	3.621	1.00	37.23
ATOM	13636	CD1	ILE	2026	7.794	-38.994	3.695	1.00	34.59
ATOM	13637	C	ILE	2026	10.045	-38.897	3.609	1.00	27.87
ATOM	13638	O	ILE	2026	10.152	-41.716	3.452	1.00	27.84
ATOM	13639	N	PFO	2027	11.035	-38.346	2.154	1.00	25.23
ATOM	13640	CD	PFO	2027	10.945	-39.349	2.333	1.00	21.72
ATOM	13641	CA	PFO	2027	12.417	-38.793	3.975	1.00	23.60
ATOM	13642	CB	PFO	2027	13.189	-39.992	3.111	1.00	34.44
ATOM	13643	CG	PFO	2027	12.139	-39.676	1.139	1.00	26.02
ATOM	13644	C	PFO	2027	12.536	-41.299	2.266	1.00	21.46
ATOM	13645	O	PFO	2027	11.814	-41.940	2.964	1.00	18.31
ATOM	13646	N	LYS	2028	13.638	-41.840	2.642	1.00	21.15
ATOM	13647	CA	LYS	2028	13.928	-44.266	5.722	1.00	22.60
ATOM	13648	CB	LYS	2028	14.149	-44.697	6.914	1.00	25.69
ATOM	13649	CG	LYS	2028	13.946	-43.928	5.441	1.00	33.29
ATOM	13650	CD	LYS	2028	14.455	-43.717	4.653	1.00	36.85
ATOM	13651	CE	LYS	2028	14.516	-44.017	5.170	1.00	40.01
ATOM	13652	NZ	LYS	2028	14.001	-42.848	2.343	1.00	41.13
ATOM	13653	C	LYS	2028	13.109	-44.767	3.146	1.00	20.12
ATOM	13654	O	LYS	2028	13.751	-45.951	3.448	1.00	19.78
ATOM	13655	N	PHE	2029	14.656	-43.926	10.026	1.00	18.98
ATOM	13656	CA	PHE	2029	14.904	-44.357	11.400	1.00	17.08
ATOM	13657	CB	PHE	2029	16.031	-43.494	11.994	1.00	16.61

ATOM	13668	CA	PHE	2039	14.734	-44.627	11.873	1.00	14.68
ATOM	13669	CB	PHE	2039	14.872	-41.459	17.483	1.00	14.61
ATOM	13670	CG	PHE	2039	14.853	-41.111	11.614	1.00	14.71
ATOM	13671	CD	PHE	2039	14.585	-42.127	11.843	1.00	14.41
ATOM	13672	CE	PHE	2039	14.372	-42.846	11.961	1.00	14.32
ATOM	13673	CD	PHE	2039	14.123	-43.258	11.876	1.00	14.51
ATOM	13674	CE	PHE	2039	14.883	-44.279	12.412	1.00	14.58
ATOM	13675	CE	PHE	2039	14.732	-44.785	12.443	1.00	12.75
ATOM	13676	N	ALA	2039	11.587	-43.766	11.823	1.00	13.77
ATOM	13677	CA	ALA	2039	11.374	-43.579	12.615	1.00	13.91
ATOM	13678	CB	ALA	2039	10.752	-42.221	12.387	1.00	14.25
ATOM	13679	C	ALA	2039	11.366	-44.661	12.345	1.00	15.51
ATOM	13680	O	ALA	2039	10.415	-45.349	11.877	1.00	14.24
ATOM	13681	N	LYS	2039	8.360	-44.751	13.243	1.00	13.26
ATOM	13682	CA	LYS	2039	8.287	-45.713	13.132	1.00	13.53
ATOM	13683	CB	LYS	2039	8.599	-46.980	13.904	1.00	13.72
ATOM	13684	CG	LYS	2039	7.469	-48.008	13.894	1.00	13.98
ATOM	13685	CD	LYS	2039	7.871	-49.321	14.566	1.00	15.44
ATOM	13686	CE	LYS	2039	7.659	-50.206	14.782	1.00	17.20
ATOM	13687	NZ	LYS	2039	7.004	-51.542	15.354	1.00	18.85
ATOM	13688	C	LYS	2039	6.986	-45.056	13.625	1.00	13.23
ATOM	13689	O	LYS	2039	6.961	-44.343	14.633	1.00	12.43
ATOM	13690	N	ASN	2039	5.915	-45.319	12.290	1.00	13.87
ATOM	13691	CA	ASN	2039	4.594	-44.866	13.272	1.00	14.17
ATOM	13692	CB	ASN	2039	5.743	-44.625	12.015	1.00	15.58
ATOM	13693	CG	ASN	2039	2.318	-44.218	12.336	1.00	17.13
ATOM	13694	CD	ASN	2039	1.846	-44.384	13.465	1.00	18.27
ATOM	13695	ND2	ASN	2039	1.614	-43.699	11.338	1.00	15.67
ATOM	13696	C	ASN	2039	3.964	-48.964	14.124	1.00	14.00
ATOM	13697	O	ASN	2039	3.512	-46.987	13.534	1.00	13.34
ATOM	13698	N	PHE	2039	5.955	-43.760	15.435	1.00	11.21
ATOM	13699	CA	PHE	2039	3.352	-46.733	16.370	1.00	13.00
ATOM	13700	CB	PHE	2039	3.567	-46.540	17.778	1.00	13.10
ATOM	13701	CG	PHE	2039	5.412	-46.946	17.868	1.00	13.28
ATOM	13702	CD	PHE	2039	6.433	-46.051	17.569	1.00	13.00
ATOM	13703	CE	PHE	2039	6.051	-44.254	18.240	1.00	12.37
ATOM	13704	CH1	PHE	2039	3.773	-46.446	17.587	1.00	14.63
ATOM	13705	CH2	PHE	2039	3.091	-48.603	18.262	1.00	11.60
ATOM	13706	CH	PHE	2039	4.106	-47.756	17.934	1.00	12.01
ATOM	13707	C	PHE	2039	1.864	-46.643	16.421	1.00	14.13
ATOM	13708	O	PHE	2039	1.183	-47.603	16.788	1.00	15.64
ATOM	13709	N	LEU	2039	1.315	-48.493	16.654	1.00	13.10
ATOM	13710	CA	LEU	2039	-1.135	-48.332	16.075	1.00	14.62
ATOM	13711	CB	LEU	2039	-0.566	-45.333	15.780	1.00	15.39
ATOM	13712	CG	LEU	2039	-2.088	-43.744	15.737	1.00	15.09
ATOM	13713	CD	LEU	2039	-2.712	-46.235	17.047	1.00	17.20
ATOM	13714	CE	LEU	2039	-2.419	-42.283	15.484	1.00	15.32
ATOM	13715	C	LEU	2039	-0.741	-46.311	15.039	1.00	16.57
ATOM	13716	O	LEU	2039	-1.736	-47.004	15.313	1.00	14.84
ATOM	13717	N	ALA	2039	-0.132	-46.480	13.858	1.00	20.33
ATOM	13718	CA	ALA	2039	-0.653	-47.266	11.783	1.00	23.74
ATOM	13719	CB	ALA	2039	0.345	-48.219	11.614	1.00	26.07
ATOM	13720	C	ALA	2039	-0.790	-48.900	11.369	1.00	23.33
ATOM	13721	N	ALA	2039	-1.590	-49.483	11.664	1.00	24.55
ATOM	13722	N	GLN	2039	-0.117	-49.036	14.366	1.00	39.11
ATOM	13723	CA	GLN	2039	0.164	-50.373	14.954	1.00	41.95
ATOM	13724	CB	GLN	2039	0.893	-50.941	16.026	1.00	41.01
ATOM	13725	CG	GLN	2039	2.296	-50.180	17.573	1.00	45.41
ATOM	13726	CD	GLN	2039	2.844	-51.086	14.493	1.00	46.00
ATOM	13727	CE	GLN	2039	3.862	-50.704	17.569	1.00	55.73
ATOM	13728	OE1	GLN	2039	2.240	-50.105	14.231	1.00	51.36
ATOM	13729	O	GLN	2039	-1.561	-50.605	15.591	1.00	43.11
ATOM	13730	O	GLN	2039	-1.915	-51.740	15.916	1.00	44.00
ATOM	13731	N	THR	2039	-2.313	-49.520	15.770	1.00	43.75
ATOM	13732	CA	THR	2039	-3.647	-49.559	16.372	1.00	43.51
ATOM	13733	CB	THR	2039	-3.594	-43.742	17.894	1.00	44.56
ATOM	13734	CG1	THR	2039	-4.872	-43.832	16.452	1.00	46.30
ATOM	13735	CG2	THR	2039	-2.821	-48.567	16.513	1.00	47.17
ATOM	13736	C	THR	2039	-4.442	-48.233	16.075	1.00	41.30
ATOM	13737	O	THR	2039	-4.206	-47.644	15.046	1.00	45.72
ATOM	13738	N	GLY	2039	-5.330	-47.916	16.976	1.00	38.36
ATOM	13739	CA	GLY	2039	-6.107	-46.700	16.809	1.00	37.31
ATOM	13740	C	GLY	2039	-6.187	-45.946	18.123	1.00	29.31
ATOM	13741	O	GLY	2039	-7.129	-45.193	18.383	1.00	29.97
ATOM	13742	N	ASP	2039	-5.184	-46.157	18.964	1.00	28.77
ATOM	13743	CA	ASP	2039	-5.134	-45.510	20.271	1.00	19.97
ATOM	13744	CB	ASP	2039	-5.582	-46.503	21.353	1.00	25.10

ATOM	13735	CG	ASP	2039	-5.458	-45.935	22.755	1.00	16.45
ATOM	13736	GL1	ASP	2039	-4.352	-45.993	22.311	1.00	15.80
ATOM	13737	GL2	ASP	2039	-6.466	-45.412	23.284	1.00	13.08
ATOM	13738	C	ASP	2039	-4.709	-45.026	20.528	1.00	15.18
ATOM	13739	O	ASP	2039	-2.770	-45.314	20.516	1.00	11.93
ATOM	13740	N	ILE	2040	-6.562	-45.725	20.762	1.00	14.13
ATOM	13741	HA	ILE	2040	-1.256	-45.121	20.989	1.00	12.21
ATOM	13742	CB	ILE	2040	-2.379	-41.579	21.053	1.00	12.00
ATOM	13743	CG2	ILE	2040	-1.046	-46.154	21.421	1.00	12.10
ATOM	13744	CG1	ILE	2040	-2.842	-41.052	19.689	1.00	13.28
ATOM	13745	CD1	ILE	2040	-3.192	-39.855	19.675	1.00	14.00
ATOM	13746	C	ILE	2041	-1.544	-41.143	22.234	1.00	12.05
ATOM	13747	O	ILE	2040	-0.336	-40.138	22.214	1.00	13.18
ATOM	13748	N	ARG	2041	-0.280	-41.181	23.312	1.00	11.80
ATOM	13749	CA	ARG	2041	-1.657	-44.190	24.520	1.00	13.04
ATOM	13750	CB	ARG	2041	-0.667	-44.180	25.660	1.00	13.42
ATOM	13751	CG	ARG	2041	-2.981	-41.185	26.125	1.00	14.21
ATOM	13752	CD	ARG	2041	-4.050	-41.164	27.178	1.00	16.58
ATOM	13753	NE	ARG	2041	-4.194	-41.123	27.733	1.00	14.00
ATOM	13754	CZ	ARG	2041	-4.651	-40.179	27.057	1.00	18.50
ATOM	13755	NH1	ARG	2041	-5.024	-40.100	25.791	1.00	14.48
ATOM	13756	NH2	ARG	2041	-4.728	-38.189	27.645	1.00	17.59
ATOM	13757	C	ARG	2041	-1.113	-45.153	24.264	1.00	12.55
ATOM	13758	O	ARG	2041	-0.026	-45.143	24.729	1.00	11.32
ATOM	13759	N	ALA	2042	-1.861	-45.133	23.513	1.00	12.58
ATOM	13760	CA	ALA	2042	-1.401	-45.146	23.186	1.00	13.09
ATOM	13761	CB	ALA	2042	-2.481	-45.588	22.387	1.00	13.73
ATOM	13762	C	ALA	2042	-0.111	-45.130	22.366	1.00	12.86
ATOM	13763	O	ALA	2042	0.627	-45.625	22.553	1.00	13.69
ATOM	13764	N	ALA	2043	-0.061	-45.136	21.467	1.00	11.53
ATOM	13765	CA	ALA	2043	1.121	-45.648	20.629	1.00	11.50
ATOM	13766	CB	ALA	2043	0.867	-45.553	19.605	1.00	10.75
ATOM	13767	C	ALA	2043	2.321	-45.237	21.491	1.00	10.66
ATOM	13768	O	ALA	2043	3.439	-45.727	21.235	1.00	12.15
ATOM	13769	N	VAL	2044	2.091	-45.449	22.508	1.00	9.56
ATOM	13770	CA	VAL	2044	3.166	-45.000	23.410	1.00	9.69
ATOM	13771	CB	VAL	2044	2.083	-45.383	24.419	1.00	11.34
ATOM	13772	CG1	VAL	2044	3.702	-45.123	25.536	1.00	11.70
ATOM	13773	CG2	VAL	2044	2.506	-45.616	23.494	1.00	9.78
ATOM	13774	C	VAL	2044	3.691	-45.278	24.163	1.00	11.89
ATOM	13775	O	VAL	2044	4.916	-45.473	24.268	1.00	11.33
ATOM	13776	N	ASP	2045	1.278	-47.111	24.272	1.00	19.73
ATOM	13777	CA	ASP	2045	2.177	-48.101	25.109	1.00	12.45
ATOM	13778	CB	ASP	2045	1.437	-49.016	23.356	1.00	11.81
ATOM	13779	CG	ASP	2045	1.321	-48.217	27.150	1.00	15.71
ATOM	13780	CD	ASP	2045	0.354	-49.115	25.283	1.00	17.20
ATOM	13781	NE	ASP	2045	-0.791	-49.613	27.115	1.00	18.46
ATOM	13782	CZ	ASP	2045	-1.866	-48.862	26.374	1.00	18.90
ATOM	13783	NH1	ASP	2045	-1.455	-47.612	27.382	1.00	18.73
ATOM	13784	NH2	ASP	2045	-2.374	-44.158	26.145	1.00	17.78
ATOM	13785	C	ASP	2045	0.983	-49.115	24.547	1.00	11.87
ATOM	13786	O	ASP	2045	4.923	-49.617	25.031	1.00	15.65
ATOM	13787	N	GLN	2046	0.604	-50.113	23.258	1.00	11.86
ATOM	13788	CA	GLN	2046	4.059	-50.115	22.543	1.00	12.89
ATOM	13789	CB	GLN	2046	3.503	-50.540	21.607	1.00	15.65
ATOM	13790	CG	GLN	2046	4.051	-51.119	19.616	1.00	17.14
ATOM	13791	CD	GLN	2046	3.321	-51.319	18.777	1.00	21.44
ATOM	13792	CE1	GLN	2046	2.003	-51.119	18.687	1.00	24.51
ATOM	13793	NE2	GLN	2046	1.063	-51.119	17.616	1.00	21.03
ATOM	13794	C	GLN	2046	0.682	-49.742	22.711	1.00	14.20
ATOM	13795	O	GLN	2046	6.624	-50.513	21.232	1.00	11.87
ATOM	13796	N	TYR	2047	5.821	-48.114	21.982	1.00	11.66
ATOM	13797	CA	TYR	2047	7.156	-47.114	21.740	1.00	17.34
ATOM	13798	CB	TYR	2047	6.993	-46.311	21.552	1.00	17.45
ATOM	13799	CG	TYR	2047	9.285	-45.148	21.643	1.00	17.33
ATOM	13800	CD1	TYR	2047	3.397	-45.143	20.855	1.00	11.66
ATOM	13801	CE1	TYR	2047	12.582	-45.148	20.940	1.00	15.80
ATOM	13802	CH2	TYR	2047	3.302	-44.469	22.510	1.00	11.07
ATOM	13803	CH3	TYR	2047	2.517	-41.115	22.601	1.00	14.07
ATOM	13804	CZ	TYR	2047	12.619	-14.118	21.824	1.00	13.94
ATOM	13805	OH	TYR	2047	11.815	-45.118	21.919	1.00	16.90
ATOM	13806	C	TYR	2047	8.030	-16.113	22.939	1.00	11.59
ATOM	13807	O	TYR	2047	9.145	-48.111	22.784	1.00	19.64
ATOM	13808	N	MET	2048	7.512	-45.116	24.139	1.00	13.73
ATOM	13809	CA	MET	2048	8.266	-16.110	25.361	1.00	13.01
ATOM	13810	CB	MET	2048	7.394	-47.907	26.595	1.00	14.40
ATOM	13811	CG	MET	2048	7.101	-46.434	26.842	1.00	14.98

ATOM	13812	SI	MET	2048	5.856	-46.168	18.109	1.00	18.109
ATOM	13813	CE	MET	2048	8.255	-46.711	15.500	1.00	15.500
ATOM	13814	C	MET	2048	8.733	-49.647	15.409	1.00	14.95
ATOM	13815	O	MET	2048	9.907	-49.941	15.652	1.00	11.07
ATOM	13816	N	ALA	2049	7.793	-50.561	15.163	1.00	14.54
ATOM	13817	CA	ALA	2049	8.096	-51.688	15.183	1.00	14.89
ATOM	13818	CB	ALA	2049	6.758	-52.799	14.992	1.00	14.39
ATOM	13819	C	ALA	2049	8.128	-52.136	14.140	1.00	15.06
ATOM	13820	O	ALA	2049	10.041	-53.183	14.414	1.00	14.34
ATOM	13821	N	GLU	2050	8.008	-51.849	12.916	1.00	13.67
ATOM	13822	CA	GLU	2050	8.863	-52.324	11.846	1.00	13.77
ATOM	13823	CB	GLU	2050	6.467	-51.778	20.482	1.00	10.52
ATOM	13824	CG	GLU	2050	8.388	-52.697	19.913	1.00	11.90
ATOM	13825	CD	GLU	2050	7.395	-52.284	18.864	1.00	11.19
ATOM	13826	OE1	GLU	2050	8.707	-51.760	17.753	1.00	14.22
ATOM	13827	OE2	GLU	2050	6.636	-52.502	18.256	1.00	13.97
ATOM	13828	C	GLU	2050	11.861	-51.689	22.143	1.00	14.61
ATOM	13829	O	GLU	2050	12.351	-52.322	21.793	1.00	13.64
ATOM	13830	N	VAL	2051	11.453	-50.328	22.783	1.00	14.64
ATOM	13831	CA	VAL	2051	12.074	-49.339	23.380	1.00	12.54
ATOM	13832	CB	VAL	2051	12.701	-48.552	23.383	1.00	13.65
ATOM	13833	CG1	VAL	2051	14.041	-48.153	24.236	1.00	12.92
ATOM	13834	CG2	VAL	2051	12.361	-47.621	22.427	1.00	10.30
ATOM	13835	C	VAL	2051	13.434	-50.866	24.183	1.00	12.70
ATOM	13836	O	VAL	2051	14.618	-51.203	24.043	1.00	14.76
ATOM	13837	N	GLU	2052	12.666	-51.232	25.137	1.00	12.67
ATOM	13838	CA	GLU	2052	13.196	-52.051	26.227	1.00	13.06
ATOM	13839	CB	GLU	2052	12.177	-52.152	27.405	1.00	17.39
ATOM	13840	CG	GLU	2052	12.650	-52.976	28.537	1.00	22.09
ATOM	13841	CD	GLU	2052	11.791	-52.763	29.836	1.00	27.02
ATOM	13842	OE1	GLU	2052	11.779	-53.647	30.714	1.00	29.74
ATOM	13843	OE2	GLU	2052	11.135	-51.702	29.940	1.00	27.82
ATOM	13844	C	GLU	2052	13.610	-53.446	25.809	1.00	15.04
ATOM	13845	O	GLU	2052	14.600	-54.005	26.229	1.00	12.91
ATOM	13846	N	SER	2053	12.863	-54.905	24.882	1.00	14.34
ATOM	13847	CA	SER	2053	13.113	-55.336	24.349	1.00	16.44
ATOM	13848	CB	SER	2053	11.853	-55.345	23.649	1.00	17.92
ATOM	13849	CG	SER	2053	10.360	-56.242	24.646	1.00	29.42
ATOM	13850	C	SER	2053	14.305	-55.292	23.832	1.00	16.59
ATOM	13851	O	SER	2053	14.863	-56.326	22.944	1.00	16.54
ATOM	13852	N	GLY	2054	14.632	-54.036	22.616	1.00	14.35
ATOM	13853	CA	GLY	2054	15.693	-53.981	21.817	1.00	14.92
ATOM	13854	C	GLY	2054	15.163	-54.137	20.464	1.00	14.49
ATOM	13855	O	GLY	2054	15.935	-54.053	19.503	1.00	14.84
ATOM	13856	N	VAL	2055	13.862	-54.379	20.347	1.00	13.75
ATOM	13857	CA	VAL	2055	13.131	-54.532	19.061	1.00	16.33
ATOM	13858	CB	VAL	2055	11.724	-55.036	19.312	1.00	19.13
ATOM	13859	CG1	VAL	2055	10.824	-54.610	18.137	1.00	24.52
ATOM	13860	CG2	VAL	2055	11.440	-54.518	19.361	1.00	22.18
ATOM	13861	C	VAL	2055	11.203	-57.323	18.131	1.00	15.78
ATOM	13862	O	VAL	2055	17.299	-53.420	16.433	1.00	14.06
ATOM	13863	N	TYR	2056	11.017	-52.117	18.433	1.00	13.64
ATOM	13864	CA	TYR	2056	11.105	-51.895	18.131	1.00	14.03
ATOM	13865	CB	TYR	2056	11.814	-51.108	18.126	1.00	14.11
ATOM	13866	CG	TYR	2056	11.878	-48.700	17.147	1.00	13.46
ATOM	13867	CD	TYR	2056	11.613	-48.613	16.137	1.00	14.18
ATOM	13868	OE1	TYR	2056	11.833	-47.445	15.715	1.00	13.65
ATOM	13869	OE2	TYR	2056	11.148	-47.614	16.149	1.00	11.97
ATOM	13870	CEL	TYR	2056	12.430	-46.137	15.196	1.00	13.86
ATOM	13871	CZ	TYR	2056	12.234	-46.313	16.126	1.00	14.39
ATOM	13872	OH	TYR	2056	12.432	-47.134	15.571	1.00	14.14
ATOM	13873	C	TYR	2056	14.236	-50.086	18.191	1.00	13.20
ATOM	13874	O	TYR	2056	14.412	-48.991	19.001	1.00	13.24
ATOM	13875	N	PRO	2057	15.092	-48.477	17.125	1.00	15.12
ATOM	13876	CD	PRO	2057	16.137	-43.516	18.118	1.00	16.15
ATOM	13877	CA	PRO	2057	14.932	-48.547	16.171	1.00	15.54
ATOM	13878	CB	PRO	2057	15.739	-48.374	15.180	1.00	18.49
ATOM	13879	CG	PRO	2057	16.365	-43.270	16.117	1.00	17.17
ATOM	13880	C	PRO	2057	15.378	-50.876	15.163	1.00	17.76
ATOM	13881	O	PRO	2057	16.236	-51.580	16.101	1.00	16.91
ATOM	13882	N	GLY	2058	14.745	-51.223	14.646	1.00	16.96
ATOM	13883	CA	GLY	2058	15.669	-52.457	13.951	1.00	18.25
ATOM	13884	C	GLY	2058	16.151	-52.181	12.932	1.00	19.23
ATOM	13885	O	GLY	2058	16.593	-51.639	12.776	1.00	17.91
ATOM	13886	N	GLU	2059	16.590	-52.220	12.234	1.00	18.48
ATOM	13887	CA	GLU	2059	17.627	-53.048	11.225	1.00	19.82
ATOM	13888	CB	GLU	2059	17.963	-54.396	10.572	1.00	22.37

ATOM	13889	CG	GLU	2059	19.024	-54.787	9.491	1.00	25.19
ATOM	13890	CD	GLU	2059	20.374	-53.864	10.050	1.00	26.27
ATOM	13891	OE1	GLU	2059	21.173	-53.788	9.285	1.00	28.76
ATOM	13892	OE2	GLU	2059	20.627	-54.517	11.246	1.00	24.77
ATOM	13893	C	GLU	2059	17.197	-52.054	10.151	1.00	17.71
ATOM	13894	O	GLU	2059	18.067	-51.172	9.657	1.00	16.86
ATOM	13895	N	GLU	2060	15.909	-51.078	9.787	1.00	18.39
ATOM	13896	CA	GLU	2060	15.888	-51.179	9.764	1.00	19.58
ATOM	13897	CB	GLU	2060	15.906	-51.506	8.433	1.00	23.58
ATOM	13898	CG	GLU	2060	15.569	-52.154	9.501	1.00	29.46
ATOM	13899	CD	GLU	2060	12.479	-52.188	9.527	1.00	30.54
ATOM	13900	OE1	GLU	2060	11.392	-52.590	9.370	1.00	31.23
ATOM	13901	OE2	GLU	2060	12.724	-52.154	13.484	1.00	34.44
ATOM	13902	C	GLU	2060	15.442	-49.722	9.197	1.00	16.24
ATOM	13903	O	GLU	2060	15.440	-48.828	8.363	1.00	16.32
ATOM	13904	N	HIS	2061	15.592	-49.399	12.499	1.00	17.85
ATOM	13905	CA	HIS	2061	15.646	-48.158	11.050	1.00	15.75
ATOM	13906	CB	HIS	2061	14.890	-48.575	12.374	1.00	15.70
ATOM	13907	CG	HIS	2061	16.481	-49.111	12.296	1.00	17.96
ATOM	13908	CD2	HIS	2061	12.870	-48.669	12.912	1.00	11.61
ATOM	13909	ND1	HIS	2061	12.822	-47.164	11.518	1.00	13.67
ATOM	13910	CE1	HIS	2061	11.578	-48.601	11.600	1.00	11.35
ATOM	13911	NE2	HIS	2061	12.129	-48.607	12.500	1.00	17.48
ATOM	13912	C	HIS	2061	12.174	-47.160	11.224	1.00	16.86
ATOM	13913	O	HIS	2061	12.197	-46.825	11.899	1.00	16.77
ATOM	13914	N	SEP	2062	18.946	-43.116	19.913	1.00	17.85
ATOM	13915	CA	SEP	2062	19.448	-43.110	11.175	1.00	18.95
ATOM	13916	CB	SEP	2062	26.853	-43.313	21.926	1.00	13.81
ATOM	13917	CD	SEP	2062	19.111	-43.900	13.059	1.00	21.17
ATOM	13918	C	SEP	2062	20.198	-47.167	9.941	1.00	21.62
ATOM	13919	O	SEP	2062	19.140	-48.181	8.812	1.00	21.18
ATOM	13920	N	PHI	2063	22.121	-45.130	19.170	1.00	27.99
ATOM	13921	CA	PHI	2063	22.000	-45.148	9.095	1.00	26.42
ATOM	13922	CB	PHI	2063	22.100	-44.116	8.810	1.00	29.55
ATOM	13923	CD1	PHI	2063	20.100	-47.136	9.875	1.00	31.38
ATOM	13924	CD2	PHI	2063	20.114	-44.119	7.568	1.00	29.78
ATOM	13925	CE1	PHI	2063	19.660	-42.104	9.607	1.00	30.50
ATOM	13926	CE2	PHI	2063	19.601	-43.100	7.028	1.00	31.35
ATOM	13927	CZ	PHI	2063	19.100	-42.106	8.350	1.00	19.87
ATOM	13928	C	PHI	2063	23.101	-47.107	9.301	1.00	26.42
ATOM	13929	O	PHI	2063	24.100	-47.149	12.432	1.00	21.96
ATOM	13931	N	HIS	2064	24.186	-47.167	8.199	1.00	28.64
ATOM	13932	CA	HIS	2064	25.687	-48.143	8.246	1.00	31.07
ATOM	13933	CB	HIS	2064	25.147	-49.146	7.789	1.00	31.23
ATOM	13934	CG	HIS	2064	24.184	-50.155	8.749	1.00	31.06
ATOM	13935	CD2	HIS	2064	23.100	-51.145	8.704	1.00	31.91
ATOM	13936	ND1	HIS	2064	25.100	-51.137	9.943	1.00	31.43
ATOM	13937	CE1	HIS	2064	24.413	-52.107	10.593	1.00	31.22
ATOM	13938	NE2	HIS	2064	23.100	-52.108	9.861	1.00	31.35
ATOM	13939	C	HIS	2064	26.100	-47.138	7.381	1.00	31.64
ATOM	13940	O	HIS	2064	27.100	-47.147	7.813	1.00	31.55
ATOM	13941	OXT	HIS	2064	26.100	-47.145	6.237	1.00	34.85
ATOM	13942	C1	FPL	2065	15.101	-35.167	17.261	1.00	30.48
ATOM	13943	C2	FPL	2065	16.100	-34.199	18.621	1.00	35.77
ATOM	13944	C3	FPL	2065	15.100	-35.165	19.733	1.00	34.51
ATOM	13945	C4	FPL	2065	17.100	-35.153	18.713	1.00	37.77
ATOM	13946	C1	FPL	2065	18.100	-35.011	17.681	1.00	43.74
ATOM	13947	C5	FPL	2065	15.101	-34.136	18.775	1.00	35.73
ATOM	13948	C2	FPL	2065	17.100	-35.100	18.935	1.00	41.75
ATOM	13949	C6	FPL	2065	14.103	-33.496	18.721	1.00	31.70
ATOM	13950	C3	FPL	2065	13.101	-33.000	18.508	1.00	31.53
ATOM	13951	C4	FPL	2065	15.101	-31.167	18.845	1.00	20.56
ATOM	13952	CB	MET	2101	22.114	-8.333	70.247	1.00	66.53
ATOM	13953	CG	MET	2101	22.617	-8.011	71.717	1.00	69.23
ATOM	13954	SD	MET	2101	22.027	-6.373	72.186	1.00	72.42
ATOM	13955	CE	MET	2101	23.184	-8.466	72.275	1.00	72.91
ATOM	13956	C	MET	2101	22.138	-6.237	68.953	1.00	62.53
ATOM	13957	O	MET	2101	21.157	-6.314	68.610	1.00	61.31
ATOM	13958	N	MET	2101	24.127	-7.176	68.751	1.00	64.37
ATOM	13959	CA	MET	2101	23.158	-7.496	68.743	1.00	64.23
ATOM	13960	N	LYS	2102	22.175	-5.073	68.083	1.00	60.03
ATOM	13961	CA	LYS	2102	22.117	-4.709	68.834	1.00	57.36
ATOM	13962	CB	LYS	2102	22.019	-4.086	70.167	1.00	58.45
ATOM	13963	CG	LYS	2102	20.762	-3.591	70.863	1.00	60.33
ATOM	13964	CD	LYS	2102	19.498	-3.250	72.117	1.00	61.61
ATOM	13965	CE	LYS	2102	18.100	-2.893	73.111	1.00	62.35

ATCM	13966	NZ	LYS	2102	18.073	-1.296	69.354	1.00	63.75
ATCM	13967	C	LYS	2102	23.179	-2.896	67.957	1.00	54.18
ATCM	13968	O	LYS	2102	23.678	-1.865	62.412	1.00	54.59
ATCM	13969	N	PRO	2103	23.371	-5.276	66.685	1.00	50.17
ATCM	13970	CD	PRO	2103	23.878	-2.346	65.660	1.00	49.96
ATCM	13971	CA	PRO	2103	23.830	-4.384	63.057	1.00	40.64
ATCM	13972	CB	PRO	2103	23.605	-4.032	63.620	1.00	47.38
ATCM	13973	CG	PRO	2103	23.801	-5.176	64.386	1.00	48.98
ATCM	13974	C	PRO	2103	23.794	-5.672	66.131	1.00	40.70
ATCM	13975	O	PRO	2103	24.924	-5.526	66.596	1.00	41.32
ATCM	13976	N	THR	2104	23.324	-6.821	65.662	1.00	38.31
ATCM	13977	CA	THR	2104	24.144	-8.045	65.662	1.00	35.06
ATCM	13978	CB	THR	2104	23.259	-9.309	65.701	1.00	35.04
ATCM	13979	CG1	THR	2104	23.447	-9.186	66.175	1.00	34.66
ATCM	13980	CG2	THR	2104	24.116	-10.561	65.714	1.00	34.54
ATCM	13981	C	THR	2104	24.987	-8.080	64.384	1.00	33.55
ATCM	13982	O	THR	2104	24.451	-7.871	65.791	1.00	31.34
ATCM	13983	N	THR	2105	26.279	-8.340	64.521	1.00	31.77
ATCM	13984	CA	THR	2105	23.151	-8.191	65.765	1.00	30.17
ATCM	13985	CB	THR	2105	23.127	-7.173	65.636	1.00	30.72
ATCM	13986	CG1	THR	2105	23.966	-7.177	64.471	1.00	27.16
ATCM	13987	CG2	THR	2105	23.150	-8.174	65.666	1.00	28.75
ATCM	13988	C	THR	2105	23.111	-9.186	65.695	1.00	28.36
ATCM	13989	O	THR	2105	23.961	-10.174	64.781	1.00	28.05
ATCM	13990	N	ILE	2106	23.798	-9.117	62.197	1.00	28.45
ATCM	13991	CA	ILE	2106	23.660	-11.114	62.162	1.00	28.68
ATCM	13992	CB	ILE	2106	23.327	-10.111	62.693	1.00	28.87
ATCM	13993	CG1	ILE	2106	23.187	-11.111	62.699	1.00	28.77
ATCM	13994	CG2	ILE	2106	23.638	-10.613	63.681	1.00	28.84
ATCM	13995	C	ILE	2106	23.469	-10.117	62.493	1.00	27.10
ATCM	13996	O	ILE	2106	23.599	-11.111	62.764	1.00	28.36
ATCM	13997	O	ILE	2106	23.944	-13.114	65.833	1.00	28.15
ATCM	13998	N	SEP	2107	21.000	-9.111	62.654	1.00	28.15
ATCM	13999	CA	SEP	2107	21.897	-9.111	65.007	1.00	28.81
ATCM	14000	CB	SEP	2107	21.051	-8.111	65.421	1.00	28.74
ATCM	14001	CG	SEP	2107	21.543	-11.111	64.781	1.00	28.42
ATCM	14002	C	SEP	2107	21.796	-10.111	66.171	1.00	28.75
ATCM	14003	O	SEP	2107	21.131	-11.111	66.904	1.00	28.34
ATCM	14004	N	LEU	2108	23.004	-10.111	66.741	1.00	28.42
ATCM	14005	CA	LEU	2108	23.411	-11.111	67.436	1.00	28.77
ATCM	14006	CB	LEU	2108	22.920	-11.111	67.111	1.00	28.08
ATCM	14007	CG	LEU	2108	22.356	-10.111	68.785	1.00	28.78
ATCM	14008	CD1	LEU	2108	23.833	-10.111	68.601	1.00	28.38
ATCM	14009	CD2	LEU	2108	22.851	-11.111	69.983	1.00	28.44
ATCM	14010	C	LEU	2108	23.601	-11.874	67.167	1.00	28.98
ATCM	14011	O	LEU	2108	23.943	-11.111	68.711	1.00	28.71
ATCM	14012	N	LEU	2109	23.366	-11.111	69.055	1.00	28.45
ATCM	14013	CA	LEU	2109	23.564	-13.111	67.783	1.00	28.36
ATCM	14014	CB	LEU	2109	23.631	-12.111	64.760	1.00	26.96
ATCM	14015	CG	LEU	2109	23.603	-13.111	65.937	1.00	26.16
ATCM	14016	CD1	LEU	2109	23.123	-12.111	67.626	1.00	24.61
ATCM	14017	CD2	LEU	2109	23.631	-12.111	65.746	1.00	23.32
ATCM	14018	C	LEU	2109	23.063	-13.111	67.765	1.00	28.20
ATCM	14019	O	LEU	2109	23.134	-14.111	69.451	1.00	27.30
ATCM	14020	N	GLN	2110	23.773	-13.111	67.767	1.00	27.67
ATCM	14021	CA	GLN	2110	23.793	-13.111	68.631	1.00	28.59
ATCM	14022	CB	GLN	2110	23.131	-13.111	67.611	1.00	27.71
ATCM	14023	CG	GLN	2110	23.596	-13.111	64.491	1.00	28.40
ATCM	14024	CD	GLN	2110	23.773	-15.111	63.893	1.00	27.71
ATCM	14025	OR1	GLN	2110	23.573	-15.111	64.303	1.00	27.12
ATCM	14026	NE2	GLN	2110	23.156	-14.111	62.641	1.00	27.57
ATCM	14027	C	GLN	2110	23.613	-14.111	67.173	1.00	27.51
ATCM	14028	O	GLN	2110	24.441	-15.111	67.583	1.00	28.31
ATCM	14029	N	LYS	2111	23.951	-13.111	67.987	1.00	28.46
ATCM	14030	CA	LYS	2111	23.157	-13.111	69.430	1.00	28.03
ATCM	14031	CB	LYS	2111	23.407	-12.111	70.098	1.00	27.13
ATCM	14032	CG	LYS	2111	23.493	-12.111	71.621	1.00	24.90
ATCM	14033	C	LYS	2111	23.376	-12.111	72.275	1.00	25.16
ATCM	14034	CD	LYS	2111	23.450	-10.517	71.353	1.00	26.74
ATCM	14035	NZ	LYS	2111	23.403	-9.717	72.674	1.00	27.23
ATCM	14036	C	LYS	2111	22.637	-15.111	69.789	1.00	28.03
ATCM	14037	O	LYS	2111	23.282	-15.111	70.825	1.00	27.38
ATCM	14038	N	TYR	2112	23.463	-15.111	69.521	1.00	28.15
ATCM	14039	CA	TYR	2112	23.845	-16.111	69.970	1.00	27.94
ATCM	14040	CB	TYR	2112	23.536	-17.111	69.256	1.00	28.49
ATCM	14041	CG	TYR	2112	23.385	-16.111	69.755	1.00	27.93
ATCM	14042	CD	TYR	2112	23.150	-16.111	69.191	1.00	27.12

ATOM	14043	CE1	TYF	2112	26.106	-15.461	69.569	1.00	43.58
ATOM	14044	CD2	TYF	2112	28.544	-15.488	70.897	1.00	42.83
ATOM	14045	CE2	TYF	2112	27.503	-14.695	71.374	1.00	43.95
ATOM	14046	CZ	TYF	2112	26.288	-14.687	70.507	1.00	44.41
ATOM	14047	OH	TYF	2112	25.256	-13.712	71.176	1.00	46.08
ATOM	14048	C	TYF	2112	31.715	-18.190	69.761	1.00	37.30
ATOM	14049	O	TYF	2112	31.765	-19.380	70.610	1.00	35.99
ATOM	14050	N	LYS	2113	32.417	-18.754	68.628	1.00	36.90
ATOM	14051	CA	LYS	2113	33.280	-19.300	68.565	1.00	38.11
ATOM	14052	CB	LYS	2113	33.784	-19.378	66.914	1.00	36.95
ATOM	14053	CG	LYS	2113	34.652	-20.579	66.560	1.00	34.27
ATOM	14054	CD	LYS	2113	34.828	-20.750	65.061	1.00	32.97
ATOM	14055	CE	LYS	2113	35.585	-22.641	64.761	1.00	32.84
ATOM	14056	NZ	LYS	2113	35.432	-22.499	63.348	1.00	30.32
ATOM	14057	C	LYS	2113	34.465	-19.411	69.328	1.00	38.99
ATOM	14058	O	LYS	2113	34.891	-20.471	69.782	1.00	38.16
ATOM	14059	N	GLN	2114	34.988	-18.719	69.639	1.00	40.34
ATOM	14060	CA	GLN	2114	36.116	-18.110	70.157	1.00	42.52
ATOM	14061	CB	GLN	2114	36.354	-16.633	70.657	1.00	44.16
ATOM	14062	CG	GLN	2114	37.345	-16.113	68.780	1.00	48.27
ATOM	14063	CD	GLN	2114	37.620	-14.661	69.486	1.00	51.00
ATOM	14064	OE1	GLN	2114	38.751	-14.714	70.786	1.00	53.91
ATOM	14065	NE2	GLN	2114	37.117	-13.881	68.155	1.00	51.51
ATOM	14066	C	GLN	2114	35.736	-18.617	71.094	1.00	42.63
ATOM	14067	O	GLN	2114	36.357	-19.159	72.616	1.00	42.39
ATOM	14068	N	GLU	2115	34.308	-18.310	72.758	1.00	43.31
ATOM	14069	CA	GLU	2115	34.306	-18.745	73.664	1.00	42.44
ATOM	14070	CB	GLU	2115	35.101	-17.736	74.167	1.00	44.37
ATOM	14071	CG	GLU	2115	35.467	-16.732	74.763	1.00	47.31
ATOM	14072	CD	GLU	2115	35.487	-15.748	74.816	1.00	49.37
ATOM	14073	OE1	GLU	2115	35.781	-15.415	74.473	1.00	50.50
ATOM	14074	OE2	GLU	2115	35.961	-14.445	75.674	1.00	52.28
ATOM	14075	C	GLU	2115	35.856	-20.114	73.558	1.00	40.43
ATOM	14076	O	GLU	2115	35.806	-20.174	74.503	1.00	40.15
ATOM	14077	N	LYS	2116	35.410	-20.701	72.788	1.00	39.34
ATOM	14078	CA	LYS	2116	35.819	-21.101	73.130	1.00	38.09
ATOM	14079	CB	LYS	2116	36.178	-21.079	72.923	1.00	40.37
ATOM	14080	CG	LYS	2116	35.649	-21.110	72.540	1.00	42.46
ATOM	14081	CD	LYS	2116	35.113	-21.682	71.075	1.00	45.30
ATOM	14082	CE	LYS	2116	36.679	-21.641	70.646	1.00	47.03
ATOM	14083	NZ	LYS	2116	37.471	-24.131	71.351	1.00	46.32
ATOM	14084	C	LYS	2116	34.337	-21.042	72.493	1.00	36.61
ATOM	14085	O	LYS	2116	30.828	-23.616	73.063	1.00	35.36
ATOM	14086	N	LYS	2117	30.620	-20.902	72.159	1.00	35.40
ATOM	14087	CA	LYS	2117	29.192	-20.908	72.444	1.00	33.94
ATOM	14088	CB	LYS	2117	28.838	-19.170	73.100	1.00	34.83
ATOM	14089	CG	LYS	2117	27.758	-19.334	73.271	1.00	36.44
ATOM	14090	CD	LYS	2117	27.639	-18.165	74.390	1.00	36.88
ATOM	14091	CE	LYS	2117	27.406	-16.739	75.395	1.00	39.51
ATOM	14092	NZ	LYS	2117	27.253	-17.358	75.714	1.00	41.13
ATOM	14093	C	LYS	2117	28.381	-21.137	71.155	1.00	32.80
ATOM	14094	O	LYS	2117	28.335	-20.132	70.300	1.00	31.72
ATOM	14095	N	ARG	2118	27.751	-22.174	71.050	1.00	35.34
ATOM	14096	CA	ARG	2118	26.338	-22.038	69.302	1.00	30.28
ATOM	14097	CB	ARG	2118	26.539	-24.135	69.484	1.00	30.93
ATOM	14098	CG	ARG	2118	27.675	-25.045	69.576	1.00	32.66
ATOM	14099	C	ARG	2118	27.360	-26.736	69.377	1.00	33.98
ATOM	14100	NE	ARG	2118	27.573	-26.653	71.374	1.00	34.15
ATOM	14101	C1	ARG	2118	27.601	-28.397	71.741	1.00	33.23
ATOM	14102	NH1	ARG	2118	27.437	-29.131	73.418	1.00	33.99
ATOM	14103	NH2	ARG	2118	27.816	-28.321	73.031	1.00	31.99
ATOM	14104	C	ARG	2118	25.703	-21.134	69.800	1.00	28.50
ATOM	14105	O	ARG	2118	24.919	-21.335	70.741	1.00	28.26
ATOM	14106	N	THR	2119	25.546	-21.039	69.647	1.00	37.02
ATOM	14107	CA	THR	2119	24.440	-20.771	68.403	1.00	35.78
ATOM	14108	CP	THR	2119	25.993	-18.316	67.465	1.00	26.66
ATOM	14109	CG	THR	2119	25.831	-18.683	66.710	1.00	28.65
ATOM	14110	CD	THR	2119	25.236	-18.742	65.457	1.00	27.88
ATOM	14111	CE	THR	2119	27.205	-15.116	66.777	1.00	23.55
ATOM	14112	OE1	THR	2119	25.397	-18.821	64.334	1.00	25.61
ATOM	14113	OE2	THR	2119	24.975	-18.192	65.674	1.00	26.47
ATOM	14114	CZ	THR	2119	27.371	-14.347	64.337	1.00	29.61
ATOM	14115	C	THR	2119	23.464	-20.653	67.351	1.00	24.14
ATOM	14116	O	THR	2119	23.261	-21.375	68.144	1.00	23.78
ATOM	14117	N	ALA	2120	23.186	-20.385	67.523	1.00	23.48
ATOM	14118	CA	ALA	2120	21.161	-21.810	68.577	1.00	21.11
ATOM	14119	CB	ALA	2120	19.684	-21.177	67.345	1.00	22.15

ATOM	14120	C	ALA	2120	20.857	-19.756	65.510	1.00	22.49
ATOM	14121	O	ALA	2120	20.928	-18.553	65.765	1.00	20.69
ATOM	14122	N	THR	2121	20.519	-20.225	64.309	1.00	20.02
ATOM	14123	CA	THR	2121	20.198	-19.350	63.186	1.00	21.26
ATOM	14124	CB	THR	2121	21.314	-19.357	62.125	1.00	22.14
ATOM	14125	OG1	THR	2121	22.512	-18.930	61.754	1.00	27.92
ATOM	14126	CG2	THR	2121	20.987	-18.414	60.985	1.00	29.91
ATOM	14127	C	THR	2121	18.927	-19.922	62.527	1.00	17.16
ATOM	14128	O	THR	2121	18.651	-21.164	62.731	1.00	17.14
ATOM	14129	N	ILE	2122	18.139	-19.161	61.885	1.00	18.16
ATOM	14130	CA	ILE	2122	16.898	-19.508	61.208	1.00	16.98
ATOM	14131	CB	ILE	2122	15.735	-19.454	62.311	1.00	19.66
ATOM	14132	CG2	ILE	2122	15.365	-17.977	62.470	1.00	18.99
ATOM	14133	CG1	ILE	2122	14.516	-20.260	61.856	1.00	20.97
ATOM	14134	CD1	ILE	2122	13.404	-20.310	62.872	1.00	23.87
ATOM	14135	C	ILE	2122	16.545	-18.884	60.000	1.00	16.60
ATOM	14136	O	ILE	2122	17.015	-17.771	59.792	1.00	17.14
ATOM	14137	N	THR	2123	15.745	-19.513	59.166	1.00	18.97
ATOM	14138	CA	THR	2123	15.530	-18.466	57.925	1.00	17.40
ATOM	14139	CB	THR	2123	14.967	-19.552	56.836	1.00	19.32
ATOM	14140	CG1	THR	2123	15.736	-20.811	57.278	1.00	20.72
ATOM	14141	CG2	THR	2123	16.039	-20.636	56.553	1.00	19.30
ATOM	14142	C	THR	2123	14.134	-17.833	58.228	1.00	16.11
ATOM	14143	O	THR	2123	15.773	-18.233	59.151	1.00	17.16
ATOM	14144	N	ALA	2124	12.978	-16.963	57.439	1.00	16.14
ATOM	14145	CA	ALA	2124	12.833	-15.933	57.649	1.00	15.39
ATOM	14146	CB	ALA	2124	13.226	-14.938	58.685	1.00	17.05
ATOM	14147	C	ALA	2124	12.639	-15.530	58.281	1.00	14.87
ATOM	14148	O	ALA	2124	13.539	-15.049	59.556	1.00	15.63
ATOM	14149	N	TYR	2125	11.331	-15.117	57.916	1.00	15.35
ATOM	14150	CA	TYR	2125	10.985	-14.511	58.659	1.00	12.33
ATOM	14151	CB	TYR	2125	10.439	-15.505	57.712	1.00	14.98
ATOM	14152	CG	TYR	2125	11.168	-16.938	57.783	1.00	13.19
ATOM	14153	CD1	TYR	2125	10.502	-18.537	54.464	1.00	15.30
ATOM	14154	CE1	TYR	2125	11.268	-19.233	54.538	1.00	19.14
ATOM	14155	CD2	TYR	2125	12.456	-17.009	57.230	1.00	15.11
ATOM	14156	CE2	TYR	2125	13.122	-18.333	57.351	1.00	16.19
ATOM	14157	CZ	TYR	2125	12.537	-19.381	54.023	1.00	17.19
ATOM	14158	OH	TYR	2125	13.100	-20.539	54.160	1.00	18.19
ATOM	14159	C	TRP	2125	9.957	-13.431	54.753	1.00	14.13
ATOM	14160	O	TRP	2125	9.513	-11.836	53.736	1.00	13.18
ATOM	14161	N	ASP	2126	9.569	-13.039	53.967	1.00	15.15
ATOM	14162	CA	ASP	2126	8.546	-11.865	56.114	1.00	15.37
ATOM	14163	CB	ASP	2126	7.164	-17.582	58.949	1.00	16.11
ATOM	14164	CG	ASP	2126	6.894	-13.517	57.195	1.00	17.33
ATOM	14165	OD1	ASP	2126	6.660	-13.063	58.286	1.00	17.13
ATOM	14166	OD2	ASP	2126	6.665	-14.719	56.837	1.00	17.95
ATOM	14167	C	ASP	2126	9.740	-11.166	57.413	1.00	16.65
ATOM	14168	O	ASP	2126	9.480	-11.549	58.325	1.00	15.29
ATOM	14169	N	TYR	2127	3.046	-10.603	57.475	1.00	15.25
ATOM	14170	CA	TYR	2127	3.120	-9.164	58.641	1.00	17.17
ATOM	14171	CB	TYR	2127	7.276	-7.913	58.197	1.00	17.15
ATOM	14172	CG	TYR	2127	6.932	-9.133	59.641	1.00	17.15
ATOM	14173	CD1	TYR	2127	7.875	-6.111	60.075	1.00	20.45
ATOM	14174	CE1	TYR	2127	7.605	-5.363	61.213	1.00	20.45
ATOM	14175	CD2	TYR	2127	5.832	-7.131	60.379	1.00	20.00
ATOM	14176	CE2	TYR	2127	5.551	-6.539	61.519	1.00	20.00
ATOM	14177	CZ	TYR	2127	6.439	-5.619	61.930	1.00	21.01
ATOM	14178	OH	TYR	2127	6.152	-4.857	63.050	1.00	24.43
ATOM	14179	C	TRP	2127	7.671	-9.337	59.937	1.00	18.30
ATOM	14180	O	TRP	2127	8.354	-9.733	60.361	1.00	17.92
ATOM	14181	N	SEP	2128	6.518	-10.457	59.336	1.00	14.07
ATOM	14182	CA	SEP	2128	5.943	-11.139	61.125	1.00	21.09
ATOM	14183	CB	SEP	2128	4.638	-11.935	60.632	1.00	22.18
ATOM	14184	CG	SEP	2128	3.632	-10.877	60.124	1.00	21.45
ATOM	14185	C	SEP	2128	6.861	-12.113	61.754	1.00	21.36
ATOM	14186	O	SEP	2128	7.154	-11.995	62.343	1.00	20.52
ATOM	14187	N	PHE	2129	7.310	-13.147	61.936	1.00	18.91
ATOM	14188	CA	PHE	2129	8.184	-14.111	61.661	1.00	18.72
ATOM	14189	CB	PHE	2129	8.464	-15.333	60.739	1.00	19.49
ATOM	14190	CG	PHE	2129	7.255	-16.103	60.797	1.00	20.91
ATOM	14191	CD1	PHE	2129	6.312	-16.317	59.772	1.00	18.77
ATOM	14192	CD2	PHE	2129	7.101	-17.146	61.363	1.00	19.74
ATOM	14193	CE1	PHE	2129	5.238	-17.198	59.411	1.00	19.85
ATOM	14194	CE2	PHE	2129	6.030	-18.067	61.907	1.00	20.86
ATOM	14195	CZ	PHE	2129	5.034	-18.775	60.829	1.00	20.11
ATOM	14196	O	PHE	2129	6.537	-17.249	62.009	1.00	22.47

ATOM	14197	O	PHE	2129	10.064	-13.799	63.697	1.00	19.28
ATOM	14198	N	ALA	2130	10.955	-12.599	61.203	1.00	18.95
ATOM	14199	CA	ALA	2130	11.333	-11.958	61.507	1.00	17.77
ATOM	14200	CB	ALA	2130	11.724	-11.307	60.296	1.00	17.96
ATOM	14201	C	ALA	2130	11.347	-11.203	62.839	1.00	20.34
ATOM	14202	O	ALA	2130	13.143	-11.184	63.673	1.00	17.59
ATOM	14203	N	LYS	2131	10.156	-10.465	63.601	1.00	19.48
ATOM	14204	CA	LYS	2131	9.932	-9.692	64.015	1.00	23.35
ATOM	14205	CB	LYS	2131	8.605	-8.300	64.030	1.00	23.83
ATOM	14206	CG	LYS	2131	8.301	-7.979	65.265	1.00	26.46
ATOM	14207	CD	LYS	2131	9.254	-6.793	65.715	1.00	29.95
ATOM	14208	CE	LYS	2131	8.767	-5.717	66.777	1.00	30.64
ATOM	14209	NZ	LYS	2131	8.650	-6.214	67.675	1.00	32.08
ATOM	14210	C	LYS	2131	9.361	-10.625	65.420	1.00	21.60
ATOM	14211	O	LYS	2131	10.447	-10.352	66.469	1.00	24.21
ATOM	14212	N	LEU	2132	9.149	-11.737	65.259	1.00	20.48
ATOM	14213	CA	LEU	2132	8.981	-12.712	66.331	1.00	21.79
ATOM	14214	CB	LEU	2132	8.060	-13.809	65.892	1.00	20.32
ATOM	14215	CG	LEU	2132	7.523	-14.833	66.030	1.00	21.91
ATOM	14216	CD	LEU	2132	6.359	-15.323	66.867	1.00	21.73
ATOM	14217	CE	LEU	2132	8.768	-15.864	67.202	1.00	19.41
ATOM	14218	O	LEU	2132	13.301	-11.135	66.733	1.00	21.65
ATOM	14219	O	LEU	2132	10.534	-13.877	67.054	1.00	20.18
ATOM	14220	N	PHE	2133	11.157	-13.645	65.803	1.00	20.35
ATOM	14221	CA	PHE	2133	12.454	-14.194	68.127	1.00	29.65
ATOM	14222	CB	PHE	2133	13.196	-14.435	64.951	1.00	18.15
ATOM	14223	CG	PHE	2133	12.452	-15.198	64.066	1.00	15.76
ATOM	14224	CD	PHE	2133	11.613	-16.110	64.717	1.00	15.98
ATOM	14225	CE	PHE	2133	12.598	-15.779	62.680	1.00	16.84
ATOM	14226	CE1	PHE	2133	10.914	-17.185	63.962	1.00	17.09
ATOM	14227	CE2	PHE	2133	11.903	-16.736	61.947	1.00	13.66
ATOM	14228	C2	PHE	2133	11.087	-17.053	62.595	1.00	15.97
ATOM	14229	O	PHE	2133	13.344	-12.713	66.875	1.00	20.41
ATOM	14230	O	PHE	2133	13.940	-17.349	67.899	1.00	22.66
ATOM	14231	N	ALA	2134	12.410	-11.991	66.356	1.00	20.80
ATOM	14232	CA	ALA	2134	14.230	-10.932	66.277	1.00	21.59
ATOM	14233	CB	ALA	2134	14.139	-9.695	66.161	1.00	22.94
ATOM	14234	C	ALA	2134	13.799	-10.730	68.417	1.00	25.03
ATOM	14235	O	ALA	2134	14.636	-10.474	68.304	1.00	25.72
ATOM	14236	N	ASP	2135	11.494	-10.719	68.666	1.00	24.88
ATOM	14237	CA	ASP	2135	12.001	-10.371	70.017	1.00	27.36
ATOM	14238	CB	ASP	2135	10.489	-10.116	70.009	1.00	28.36
ATOM	14239	CG	ASP	2135	10.086	-8.773	69.291	1.00	28.77
ATOM	14240	OD1	ASP	2135	10.963	-8.137	68.993	1.00	29.20
ATOM	14241	OD2	ASP	2135	8.876	-8.903	69.034	1.00	28.65
ATOM	14242	C	ASP	2135	12.334	-11.793	71.000	1.00	27.17
ATOM	14243	O	ASP	2135	12.518	-11.142	72.189	1.00	26.00
ATOM	14244	N	GLU	2136	12.405	-10.728	70.510	1.00	27.96
ATOM	14245	CA	GLU	2136	12.708	-13.654	71.377	1.00	28.37
ATOM	14246	CB	GLU	2136	12.111	-15.147	70.803	1.00	27.56
ATOM	14247	CG	GLU	2136	10.611	-15.341	70.813	1.00	30.49
ATOM	14248	CD	GLU	2136	10.063	-14.819	72.137	1.00	31.36
ATOM	14249	CE1	GLU	2136	10.393	-15.441	73.153	1.00	32.34
ATOM	14250	CE2	GLU	2136	9.319	-14.816	72.277	1.00	28.17
ATOM	14251	O	GLU	2136	14.167	-11.178	71.623	1.00	29.36
ATOM	14252	O	GLU	2136	14.567	-14.341	72.533	1.00	30.73
ATOM	14253	N	GLY	2137	13.029	-13.541	70.734	1.00	30.46
ATOM	14254	CA	GLY	2137	15.461	-13.738	70.948	1.00	30.66
ATOM	14255	O	GLY	2137	17.255	-11.119	69.754	1.00	29.34
ATOM	14256	O	GLY	2137	13.475	-13.979	69.374	1.00	28.38
ATOM	14257	N	LEU	2138	16.572	-14.607	68.720	1.00	28.35
ATOM	14258	CA	LEU	2138	17.229	-15.033	67.471	1.00	26.93
ATOM	14259	CB	LEU	2138	16.404	-15.885	66.874	1.00	28.35
ATOM	14260	CG	LEU	2138	16.435	-17.385	66.846	1.00	27.76
ATOM	14261	CD1	LEU	2138	15.372	-18.123	66.393	1.00	15.33
ATOM	14262	CD2	LEU	2138	14.823	-17.933	66.423	1.00	25.12
ATOM	14263	C	LEU	2138	17.590	-13.765	66.634	1.00	27.25
ATOM	14264	O	LEU	2138	13.708	-14.803	66.188	1.00	21.95
ATOM	14265	N	ASN	2139	13.886	-13.508	66.536	1.00	24.39
ATOM	14266	CA	ASN	2139	12.344	-12.333	65.812	1.00	25.76
ATOM	14267	CB	ASN	2139	12.034	-11.484	66.311	1.00	25.76
ATOM	14268	CG	ASN	2139	13.509	-11.036	67.982	1.00	31.16
ATOM	14269	CD	ASN	2139	18.415	-19.438	67.624	1.00	34.92
ATOM	14270	CE	ASN	2139	20.125	-11.399	68.116	1.00	33.28
ATOM	14271	O	ASN	2139	20.112	-12.664	64.580	1.00	30.12
ATOM	14272	O	ASN	2139	17.187	-11.874	63.715	1.00	21.94
ATOM	14273	N	VAL	2140	20.929	-13.909	64.724	1.00	14.90

ATCM	14274	CA	VAL	2140	20.703	-14.304	62.860	1.00	17.14
ATCM	14275	CB	VAL	2140	21.860	-15.387	63.114	1.00	19.66
ATCM	14276	CG1	VAL	2140	22.638	-15.512	61.874	1.00	17.34
ATCM	14277	CG2	VAL	2140	22.770	-14.735	64.215	1.00	21.37
ATCM	14278	C	VAL	2140	19.682	-14.991	61.969	1.00	14.62
ATCM	14279	O	VAL	2140	19.724	-16.685	62.773	1.00	14.94
ATCM	14280	N	MET	2141	19.324	-14.638	60.572	1.00	15.56
ATCM	14281	CA	MET	2141	18.532	-14.888	59.971	1.00	15.74
ATCM	14282	CB	MET	2141	17.066	-14.674	60.624	1.00	17.74
ATCM	14283	CG	MET	2141	16.383	-14.668	61.387	1.00	20.01
ATCM	14284	SD	MET	2141	15.066	-12.887	61.485	1.00	22.65
ATCM	14285	CE	MET	2141	15.551	-11.442	62.041	1.00	20.34
ATCM	14286	C	MET	2141	18.877	-14.389	58.548	1.00	14.81
ATCM	14287	O	MET	2141	19.577	-14.136	58.066	1.00	14.48
ATCM	14288	N	LEU	2142	18.552	-16.640	57.869	1.00	15.04
ATCM	14289	CA	LEU	2142	18.781	-16.550	56.482	1.00	15.97
ATCM	14290	CB	LEU	2142	19.473	-17.609	56.312	1.00	17.73
ATCM	14291	CG	LEU	2142	19.665	-18.140	54.937	1.00	23.22
ATCM	14292	CD1	LEU	2142	18.878	-18.861	54.756	1.00	25.89
ATCM	14293	CD2	LEU	2142	20.176	-15.632	54.136	1.00	22.00
ATCM	14294	C	LEU	2142	17.771	-16.182	55.177	1.00	14.67
ATCM	14295	O	LEU	2142	16.770	-16.366	55.787	1.00	14.51
ATCM	14296	N	VAL	2142	17.286	-15.175	54.782	1.00	13.73
ATCM	14297	CA	VAL	2142	16.507	-15.116	53.856	1.00	14.57
ATCM	14298	CB	VAL	2142	16.760	-13.887	53.162	1.00	15.17
ATCM	14299	CG1	VAL	2142	15.880	-13.889	52.063	1.00	17.16
ATCM	14300	CG2	VAL	2142	16.776	-12.782	51.779	1.00	16.64
ATCM	14301	C	VAL	2142	17.776	-15.975	51.470	1.00	14.82
ATCM	14302	O	VAL	2142	17.774	-15.468	51.782	1.00	15.21
ATCM	14303	N	GLY	2142	16.745	-15.287	52.473	1.00	16.51
ATCM	14304	CA	GLY	2142	17.579	-18.158	51.454	1.00	16.30
ATCM	14305	C	GLY	2142	16.441	-18.584	50.339	1.00	16.58
ATCM	14306	O	GLY	2142	15.771	-18.086	50.475	1.00	15.97
ATCM	14307	N	ASP	2142	17.669	-19.173	49.284	1.00	15.76
ATCM	14308	CA	ASP	2142	16.163	-19.174	48.177	1.00	16.47
ATCM	14309	CB	ASP	2142	17.066	-19.546	48.875	1.00	16.71
ATCM	14310	CG	ASP	2142	18.774	-20.849	47.765	1.00	17.25
ATCM	14311	OD1	ASP	2142	18.119	-21.474	48.172	1.00	15.53
ATCM	14312	OD2	ASP	2142	18.773	-21.127	46.159	1.00	20.23
ATCM	14313	C	ASP	2142	15.779	-20.665	48.406	1.00	14.31
ATCM	14314	O	ASP	2142	14.536	-21.183	47.732	1.00	13.80
ATCM	14315	N	PER	2142	15.370	-21.152	49.642	1.00	15.43
ATCM	14316	CA	PER	2142	14.475	-22.291	50.757	1.00	13.71
ATCM	14317	CB	PER	2142	14.764	-22.667	51.408	1.00	14.26
ATCM	14318	CG	PER	2142	14.708	-21.562	52.344	1.00	15.34
ATCM	14319	C	PER	2142	13.950	-21.723	49.333	1.00	11.48
ATCM	14320	O	PER	2142	12.066	-22.495	49.343	1.00	12.35
ATCM	14321	N	LEU	2147	12.911	-20.407	49.650	1.00	13.33
ATCM	14322	CA	LEU	2147	11.580	-19.775	49.343	1.00	15.66
ATCM	14323	CB	LEU	2147	11.675	-18.276	49.364	1.00	14.78
ATCM	14324	CG	LEU	2147	12.308	-17.474	48.463	1.00	15.80
ATCM	14325	CD1	LEU	2147	11.435	-17.211	47.718	1.00	12.97
ATCM	14326	CD2	LEU	2147	12.914	-16.144	49.341	1.00	14.31
ATCM	14327	C	LEU	2147	10.907	-20.197	48.632	1.00	15.62
ATCM	14328	O	LEU	2147	9.673	-20.120	48.408	1.00	13.76
ATCM	14329	N	GLY	2147	11.679	-20.618	47.556	1.00	13.80
ATCM	14330	CA	GLY	2147	11.779	-21.927	46.281	1.00	14.73
ATCM	14331	C	GLY	2147	10.198	-22.193	46.443	1.00	15.72
ATCM	14332	O	GLY	2147	9.347	-21.374	45.664	1.00	15.76
ATCM	14333	N	MET	2149	10.384	-22.984	47.190	1.00	16.51
ATCM	14334	CA	MET	2149	9.613	-24.142	47.732	1.00	18.76
ATCM	14335	CB	MET	2149	10.420	-25.343	48.105	1.00	15.79
ATCM	14336	CG	MET	2149	11.371	-25.737	46.779	1.00	21.21
ATCM	14337	SD	MET	2149	12.577	-27.509	47.403	1.00	23.89
ATCM	14338	CE	MET	2149	11.515	-28.406	47.735	1.00	21.42
ATCM	14339	C	MET	2149	8.525	-23.587	48.336	1.00	16.77
ATCM	14340	O	MET	2149	7.530	-24.672	48.643	1.00	15.00
ATCM	14341	N	THR	2150	9.000	-23.574	49.974	1.00	17.41
ATCM	14342	CA	THR	2150	8.125	-23.691	51.106	1.00	14.06
ATCM	14343	CB	THR	2150	8.917	-22.765	52.575	1.00	23.48
ATCM	14344	CG1	THR	2150	8.052	-22.569	53.500	1.00	24.01
ATCM	14345	CG2	THR	2150	9.319	-21.651	52.276	1.00	16.77
ATCM	14346	C	THR	2150	7.189	-21.693	50.948	1.00	19.09
ATCM	14347	O	THR	2150	6.665	-21.893	51.495	1.00	19.74
ATCM	14348	N	VAL	2151	7.631	-20.873	50.212	1.00	15.32
ATCM	14349	CA	VAL	2151	6.716	-19.685	50.093	1.00	15.78
ATCM	14350	CB	VAL	2151	7.660	-18.465	50.167	1.00	14.07

ATOM	14351	CG1	VAL	2151	6.850	-17.167	49.740	1.00	14.81
ATOM	14352	CG2	VAL	2151	8.092	-18.258	51.629	1.00	16.78
ATOM	14353	C	VAL	2151	6.122	-19.687	48.634	1.00	15.03
ATOM	14354	O	VAL	2151	4.892	-19.571	48.554	1.00	12.62
ATOM	14355	N	GLN	2152	6.898	-19.821	47.562	1.00	12.81
ATOM	14356	CA	GLN	2152	6.331	-19.512	46.305	1.00	11.29
ATOM	14357	CB	GLN	2152	7.411	-19.439	45.199	1.00	9.78
ATOM	14358	CG	GLN	2152	8.125	-18.150	45.545	1.00	11.69
ATOM	14359	CD	GLN	2152	9.274	-17.766	44.616	1.00	12.80
ATOM	14360	OE1	GLN	2152	9.733	-18.750	43.991	1.00	13.02
ATOM	14361	NE2	GLN	2152	9.765	-16.630	44.639	1.00	16.46
ATOM	14362	C	GLN	2152	5.673	-21.127	45.753	1.00	13.86
ATOM	14363	O	GLN	2152	4.811	-21.127	44.637	1.00	11.82
ATOM	14364	N	GLY	2153	6.089	-21.244	46.768	1.00	14.36
ATOM	14365	CA	GLY	2153	5.485	-23.517	46.020	1.00	13.48
ATOM	14366	C	GLY	2153	5.071	-24.295	44.812	1.00	14.85
ATOM	14367	O	GLY	2153	5.409	-24.187	44.768	1.00	13.63
ATOM	14368	N	HIS	2154	7.201	-23.974	44.464	1.00	14.25
ATOM	14369	CA	HIS	2154	7.967	-24.675	43.723	1.00	14.12
ATOM	14370	CB	HIS	2154	8.061	-23.759	42.735	1.00	13.89
ATOM	14371	CG	HIS	2154	8.556	-21.555	42.100	1.00	16.32
ATOM	14372	CH3	HIS	2154	8.513	-21.251	42.417	1.00	15.11
ATOM	14373	NE1	HIS	2154	7.599	-21.501	40.949	1.00	16.63
ATOM	14374	CE1	HIS	2154	7.519	-21.732	40.795	1.00	18.58
ATOM	14375	NE2	HIS	2154	8.066	-20.812	41.474	1.00	18.40
ATOM	14376	C	HIS	2154	6.587	-19.744	43.856	1.00	17.17
ATOM	14377	O	HIS	2154	8.770	-20.702	45.042	1.00	17.96
ATOM	14378	N	ASP	2155	8.913	-20.668	42.639	1.00	16.27
ATOM	14379	CA	ASP	2155	7.507	-20.133	42.171	1.00	21.17
ATOM	14380	CB	ASP	2155	7.344	-19.141	42.041	1.00	26.36
ATOM	14381	CG	ASP	2155	10.020	-18.659	40.771	1.00	30.40
ATOM	14382	OD1	ASP	2155	11.238	-18.178	40.705	1.00	30.34
ATOM	14383	OD2	ASP	2155	9.331	-18.762	39.727	1.00	38.43
ATOM	14384	C	ASP	2155	10.986	-20.160	43.568	1.00	18.34
ATOM	14385	O	ASP	2155	11.660	-20.027	43.891	1.00	19.68
ATOM	14386	N	SER	2156	11.559	-20.174	42.987	1.00	17.54
ATOM	14387	CA	SER	2156	12.968	-20.667	43.692	1.00	14.88
ATOM	14388	CB	SER	2156	13.847	-20.162	42.835	1.00	16.27
ATOM	14389	CG	SER	2156	12.813	-20.362	42.436	1.00	13.39
ATOM	14390	C	SER	2156	13.215	-20.187	43.903	1.00	16.41
ATOM	14391	O	SER	2156	12.300	-20.712	43.781	1.00	14.28
ATOM	14392	N	THR	2157	14.449	-20.333	44.267	1.00	13.49
ATOM	14393	CA	THR	2157	14.773	-20.333	44.674	1.00	14.04
ATOM	14394	CB	THR	2157	15.901	-20.292	45.358	1.00	14.05
ATOM	14395	CG1	THR	2157	17.117	-20.325	45.016	1.00	16.03
ATOM	14396	CG2	THR	2157	15.550	-21.031	46.839	1.00	16.22
ATOM	14397	C	THR	2157	15.219	-21.663	46.270	1.00	13.58
ATOM	14398	O	THR	2157	15.329	-21.147	45.313	1.00	13.41
ATOM	14399	N	LEU	2158	15.453	-20.374	42.162	1.00	13.34
ATOM	14400	CA	LEU	2158	15.925	-21.722	40.937	1.00	10.31
ATOM	14401	CB	LEU	2158	16.087	-21.761	39.898	1.00	11.42
ATOM	14402	CG	LEU	2158	17.337	-20.646	39.959	1.00	15.63
ATOM	14403	CD1	LEU	2158	17.105	-21.616	41.104	1.00	17.91
ATOM	14404	CD2	LEU	2158	17.631	-21.103	38.909	1.00	13.40
ATOM	14405	C	LEU	2158	15.166	-21.593	40.113	1.00	13.03
ATOM	14406	O	LEU	2158	15.779	-20.723	40.704	1.00	11.95
ATOM	14407	N	PRO	2159	13.825	-21.526	40.177	1.00	11.73
ATOM	14408	CA	PRO	2159	12.922	-20.637	40.962	1.00	13.77
ATOM	14409	CB	PRO	2159	13.060	-20.378	39.941	1.00	11.00
ATOM	14410	CG	PRO	2159	11.629	-20.913	38.814	1.00	13.23
ATOM	14411	C	PRO	2159	11.019	-21.841	41.265	1.00	13.86
ATOM	14412	O	PRO	2159	13.181	-21.078	40.737	1.00	8.57
ATOM	14413	N	PRO	2159	12.796	-19.016	40.253	1.00	10.80
ATOM	14414	H	VAL	2160	13.717	-19.147	41.749	1.00	9.73
ATOM	14415	CA	VAL	2160	13.856	-18.639	41.164	1.00	10.64
ATOM	14416	CB	VAL	2160	14.334	-18.295	44.191	1.00	7.98
ATOM	14417	CG1	VAL	2160	14.487	-17.763	43.847	1.00	8.23
ATOM	14418	CG2	VAL	2160	13.637	-18.246	44.833	1.00	9.05
ATOM	14419	C	VAL	2160	14.807	-18.956	42.100	1.00	10.30
ATOM	14420	O	VAL	2160	15.966	-18.592	41.713	1.00	12.34
ATOM	14421	N	THR	2161	14.373	-19.715	41.943	1.00	10.55
ATOM	14422	CA	THR	2161	15.193	-18.686	41.110	1.00	13.51
ATOM	14423	CB	THR	2161	14.344	-18.893	40.321	1.00	13.26
ATOM	14424	C	THR	2161	13.717	-18.133	39.347	1.00	20.13
ATOM	14425	CG1	THR	2161	15.234	-17.954	39.478	1.00	19.77
ATOM	14426	O	THR	2161	15.811	-18.717	41.335	1.00	10.56
ATOM	14427	N	THR	2161	15.117	-18.733	40.436	1.00	11.17

ATOM	14428	N	VAL	2162	16.777	-12.940	41.897	1.00	12.13
ATOM	14429	CA	VAL	2162	17.435	-11.979	42.778	1.00	13.71
ATOM	14430	CB	VAL	2162	18.538	-11.216	42.019	1.00	15.08
ATOM	14431	CG1	VAL	2162	19.051	-10.057	42.858	1.00	16.93
ATOM	14432	CG2	VAL	2162	19.674	-11.173	41.676	1.00	18.68
ATOM	14433	C	VAL	2162	18.387	-11.000	43.310	1.00	13.50
ATOM	14434	O	VAL	2162	18.426	-10.571	44.469	1.00	14.68
ATOM	14435	N	ALA	2163	15.429	-10.662	42.455	1.00	11.50
ATOM	14436	CA	ALA	2163	14.342	-9.751	42.822	1.00	12.58
ATOM	14437	CB	ALA	2163	13.454	-9.473	41.666	1.00	13.58
ATOM	14438	C	ALA	2163	13.527	-10.752	42.956	1.00	12.11
ATOM	14439	O	ALA	2163	13.094	-9.637	44.872	1.00	10.50
ATOM	14440	N	ASP	2164	13.287	-11.664	42.886	1.00	10.65
ATOM	14441	CA	ASP	2164	12.515	-12.340	44.938	1.00	12.01
ATOM	14442	CB	ASP	2164	12.182	-11.822	44.607	1.00	10.77
ATOM	14443	CG	ASP	2164	11.413	-14.028	43.723	1.00	14.18
ATOM	14444	DD1	ASP	2164	10.593	-13.141	43.644	1.00	14.70
ATOM	14445	DD2	ASP	2164	11.546	-15.107	42.745	1.00	14.94
ATOM	14446	C	ASP	2164	13.372	-11.153	46.260	1.00	12.73
ATOM	14447	O	ASP	2164	12.696	-11.941	47.121	1.00	11.78
ATOM	14448	N	LEU	2165	14.774	-11.101	46.111	1.00	11.68
ATOM	14449	CA	LEU	2165	15.263	-11.419	47.371	1.00	11.11
ATOM	14450	CB	LEU	2165	16.127	-11.818	47.163	1.00	10.98
ATOM	14451	CG1	LEU	2165	17.668	-11.571	48.418	1.00	12.50
ATOM	14452	CG2	LEU	2165	16.805	-14.187	46.754	1.00	9.88
ATOM	14453	CD1	LEU	2165	16.131	-15.194	47.819	1.00	13.23
ATOM	14454	C	LEU	2165	15.117	-11.024	48.641	1.00	11.11
ATOM	14455	O	LEU	2165	15.115	-11.861	49.148	1.00	12.10
ATOM	14456	N	ALA	2166	15.178	-11.016	47.291	1.00	11.79
ATOM	14457	CA	ALA	2166	15.171	-9.818	47.664	1.00	11.39
ATOM	14458	CB	ALA	2166	15.142	-9.718	46.479	1.00	12.00
ATOM	14459	C	ALA	2166	14.114	-8.114	48.185	1.00	11.49
ATOM	14460	O	ALA	2166	14.189	-9.452	49.278	1.00	12.63
ATOM	14461	N	TYR	2167	13.086	-8.704	47.278	1.00	12.63
ATOM	14462	CA	TYR	2167	11.110	-8.448	48.133	1.00	12.41
ATOM	14463	CB	TYR	2167	10.111	-8.188	47.254	1.00	12.48
ATOM	14464	CG	TYR	2167	9.181	-8.135	47.838	1.00	12.77
ATOM	14465	CD1	TYR	2167	8.065	-8.146	47.182	1.00	13.28
ATOM	14466	CD2	TYR	2167	7.119	-8.895	48.113	1.00	14.62
ATOM	14467	CD3	TYR	2167	8.645	-11.876	48.189	1.00	11.85
ATOM	14468	CE2	TYR	2167	7.116	-11.135	48.731	1.00	11.83
ATOM	14469	CZ	TYR	2167	6.617	-9.038	48.657	1.00	17.06
ATOM	14470	OH	TYR	2167	5.193	-8.988	49.110	1.00	15.51
ATOM	14471	C	TYR	2167	11.578	-8.965	49.660	1.00	13.47
ATOM	14472	O	TYR	2167	11.390	-8.143	50.185	1.00	14.07
ATOM	14473	N	HIS	2168	11.112	-11.134	49.104	1.00	15.89
ATOM	14474	CA	HIS	2168	11.113	-10.890	51.100	1.00	13.79
ATOM	14475	CB	HIS	2168	11.143	-11.403	50.909	1.00	13.97
ATOM	14476	CG	HIS	2168	10.711	-11.914	50.789	1.00	14.62
ATOM	14477	CD2	HIS	2168	10.411	-11.400	49.012	1.00	11.57
ATOM	14478	ND1	HIS	2168	9.554	-11.120	50.976	1.00	11.84
ATOM	14479	CE1	HIS	2168	8.641	-11.706	56.162	1.00	11.74
ATOM	14480	NE2	HIS	2168	9.115	-11.325	48.614	1.00	11.68
ATOM	14481	C	HIS	2168	12.870	-10.956	52.134	1.00	13.33
ATOM	14482	O	HIS	2168	12.614	-10.331	53.173	1.00	13.33
ATOM	14483	N	THR	2169	14.011	-8.413	51.133	1.00	14.47
ATOM	14484	CA	THR	2169	15.068	-8.369	51.113	1.00	13.34
ATOM	14485	CB	THR	2169	16.367	-8.650	51.613	1.00	13.23
ATOM	14486	CG1	THR	2169	16.949	-10.125	51.333	1.00	13.29
ATOM	14487	CG2	THR	2169	17.349	-8.697	52.145	1.00	13.61
ATOM	14488	C	THR	2169	14.617	-8.150	53.673	1.00	13.47
ATOM	14489	O	THR	2169	14.784	-7.837	54.283	1.00	14.23
ATOM	14490	N	GLA	2170	14.015	-7.135	52.094	1.00	13.56
ATOM	14491	CA	GLA	2170	13.567	-5.836	52.840	1.00	13.22
ATOM	14492	C	GLA	2170	13.018	-4.939	51.723	1.00	12.46
ATOM	14493	O	GLA	2170	12.418	-5.141	53.905	1.00	15.15
ATOM	14494	O	GLA	2170	12.467	-5.471	54.846	1.00	14.11
ATOM	14495	N	ALA	2171	11.615	-7.113	53.657	1.00	15.33
ATOM	14496	CA	ALA	2171	10.585	-6.447	54.813	1.00	15.73
ATOM	14497	CB	ALA	2171	9.646	-8.509	54.633	1.00	15.19
ATOM	14498	C	ALA	2171	11.163	-8.952	55.936	1.00	16.82
ATOM	14499	O	ALA	2171	10.743	-7.502	57.619	1.00	16.97
ATOM	14500	N	VAL	2172	12.146	-8.814	55.868	1.00	16.63
ATOM	14501	CA	VAL	2172	12.771	-9.341	57.085	1.00	16.13
ATOM	14502	CB	VAL	2172	13.769	-10.494	56.167	1.00	17.51
ATOM	14503	CG1	VAL	2172	14.816	-11.818	57.119	1.00	14.14
ATOM	14504	CG2	VAL	2172	14.999	-11.133	58.118	1.00	14.18

ATOM	14505	C	VAL	2172	13.484	-8.213	57.831	1.00	16.90
ATOM	14506	O	VAL	2172	13.432	-8.155	59.063	1.00	18.87
ATOM	14507	N	ARG	2172	14.148	-7.321	57.089	1.00	16.84
ATOM	14508	CA	ARG	2172	14.860	-6.195	57.689	1.00	17.87
ATOM	14509	CB	ARG	2172	15.594	-5.580	58.613	1.00	18.06
ATOM	14510	CG	ARG	2172	16.334	-4.148	57.156	1.00	17.82
ATOM	14511	CD	ARG	2172	17.229	-4.512	58.340	1.00	19.45
ATOM	14512	NE	ARG	2172	18.482	-5.161	57.929	1.00	18.52
ATOM	14513	CZ	ARG	2172	19.265	-5.822	58.740	1.00	18.73
ATOM	14514	NH1	ARG	2172	19.946	-6.037	60.017	1.00	17.92
ATOM	14515	NH2	ARG	2172	20.375	-6.418	58.274	1.00	17.07
ATOM	14516	C	ARG	2172	13.915	-5.281	58.467	1.00	19.95
ATOM	14517	O	ARG	2172	14.280	-4.552	59.523	1.00	18.61
ATOM	14518	N	ARG	2174	12.707	-5.089	57.945	1.00	18.95
ATOM	14519	CA	ARG	2174	11.722	-4.260	58.628	1.00	20.06
ATOM	14520	CP	ARG	2174	10.417	-4.642	57.754	1.00	18.51
ATOM	14521	CG	ARG	2174	10.726	-5.506	58.483	1.00	20.20
ATOM	14522	CD	ARG	2174	9.472	-4.856	58.823	1.00	22.84
ATOM	14523	NE	ARG	2174	9.707	-5.199	54.158	1.00	24.12
ATOM	14524	CZ	ARG	2174	9.783	-5.566	53.575	1.00	26.22
ATOM	14525	NH1	ARG	2174	9.506	-4.760	53.168	1.00	23.47
ATOM	14526	NH2	ARG	2174	10.169	-5.082	52.551	1.00	26.61
ATOM	14527	C	ARG	2174	11.319	-4.938	59.919	1.00	19.12
ATOM	14528	O	ARG	2174	11.045	-4.344	60.852	1.00	27.06
ATOM	14529	N	GLY	2175	11.289	-6.064	59.869	1.00	18.71
ATOM	14530	CZ	GLY	2175	10.910	-5.650	61.054	1.00	19.18
ATOM	14531	O	GLY	2175	11.914	-7.126	62.135	1.00	19.83
ATOM	14532	C	GLY	2175	11.662	-5.177	63.111	1.00	19.19
ATOM	14533	N	ALA	2176	10.225	-5.122	61.685	1.00	17.39
ATOM	14534	CA	ALA	2176	14.365	-5.101	62.619	1.00	19.21
ATOM	14535	CB	ALA	2176	14.815	-5.644	62.696	1.00	20.39
ATOM	14536	C	ALA	2176	15.481	-6.528	62.155	1.00	20.49
ATOM	14537	O	ALA	2176	16.462	-6.528	61.586	1.00	20.07
ATOM	14538	N	PRO	2177	15.254	-4.951	62.445	1.00	21.58
ATOM	14539	CT	PRO	2177	14.298	-4.590	63.194	1.00	22.33
ATOM	14540	CA	PRO	2177	16.378	-5.945	62.064	1.00	22.64
ATOM	14541	CB	PRO	2177	15.613	-5.655	62.514	1.00	22.85
ATOM	14542	CG	PRO	2177	14.584	-5.388	63.755	1.00	25.01
ATOM	14543	C	PRO	2177	11.714	-4.683	62.671	1.00	22.75
ATOM	14544	O	PRO	2177	18.663	-5.431	62.119	1.00	23.87
ATOM	14545	N	ASN	2178	17.902	-4.910	63.654	1.00	22.77
ATOM	14546	CA	ASN	2178	19.222	-5.065	64.255	1.00	24.54
ATOM	14547	CB	ASN	2178	19.136	-4.540	65.745	1.00	28.89
ATOM	14548	CG	ASN	2178	18.808	-5.287	65.991	1.00	31.12
ATOM	14549	OD1	ASN	2178	19.380	-5.589	65.386	1.00	32.75
ATOM	14550	ND2	ASN	2178	17.861	-3.049	66.897	1.00	35.54
ATOM	14551	C	ASN	2178	19.614	-6.482	64.078	1.00	22.89
ATOM	14552	O	ASN	2178	20.908	-6.571	64.515	1.00	21.60
ATOM	14553	N	CYS	2179	19.105	-7.145	63.359	1.00	21.70
ATOM	14554	CA	CYS	2179	19.578	-8.708	63.356	1.00	19.54
ATOM	14555	CB	CYS	2179	18.419	-9.636	62.719	1.00	22.19
ATOM	14556	CG	CYS	2179	18.150	-9.714	60.895	1.00	21.61
ATOM	14557	C	CYS	2179	20.686	-8.581	62.214	1.00	18.00
ATOM	14558	O	CYS	2179	20.898	-7.845	61.156	1.00	16.56
ATOM	14559	N	LEU	2180	21.427	-9.882	62.144	1.00	17.26
ATOM	14560	CA	LEU	2180	21.466	-10.121	61.145	1.00	18.97
ATOM	14561	CB	LEU	2180	20.555	-11.546	61.684	1.00	18.50
ATOM	14562	CG	LEU	2180	20.622	-11.477	60.655	1.00	18.21
ATOM	14563	CD1	LEU	2180	25.531	-10.706	60.115	1.00	19.75
ATOM	14564	CD2	LEU	2180	25.616	-12.597	61.193	1.00	21.75
ATOM	14565	C	LEU	2180	21.647	-10.651	60.092	1.00	15.89
ATOM	14566	O	LEU	2180	21.164	-11.958	60.578	1.00	15.62
ATOM	14567	N	LEU	2181	21.483	-10.229	58.953	1.00	16.34
ATOM	14568	CA	LEU	2181	20.675	-10.802	57.865	1.00	15.32
ATOM	14569	CB	LEU	2181	19.730	-9.734	57.399	1.00	14.91
ATOM	14570	CG	LEU	2181	19.438	-10.179	56.662	1.00	15.55
ATOM	14571	CD1	LEU	2181	17.577	-8.936	56.295	1.00	16.38
ATOM	14572	CD2	LEU	2181	18.736	-10.863	55.293	1.00	20.67
ATOM	14573	C	LEU	2181	21.496	-11.382	56.727	1.00	15.75
ATOM	14574	O	LEU	2181	22.215	-10.653	56.093	1.00	14.71
ATOM	14575	N	LEU	2182	21.409	-12.690	56.525	1.00	13.90
ATOM	14576	CA	LEU	2182	22.123	-14.329	55.435	1.00	15.95
ATOM	14577	CB	LEU	2182	22.726	-14.600	55.875	1.00	15.67
ATOM	14578	CG	LEU	2182	24.149	-14.629	56.437	1.00	20.69
ATOM	14579	CD1	LEU	2182	24.199	-13.819	57.715	1.00	19.21
ATOM	14580	CD2	LEU	2182	24.609	-16.065	56.686	1.00	19.28
ATOM	14581	C	LEU	2182	21.136	-13.585	54.638	1.00	15.11

ATOM	14582	C	LEU	2182	20.040	-14.075	54.552	1.00	19.38
ATOM	14583	N	ALA	2183	21.508	-13.246	53.081	1.00	13.91
ATOM	14584	CA	ALA	2183	20.614	-11.486	51.962	1.00	14.60
ATOM	14585	CR	ALA	2183	20.176	-12.169	51.386	1.00	12.61
ATOM	14586	C	ALA	2183	21.314	-14.306	50.893	1.00	14.00
ATOM	14587	O	ALA	2183	22.471	-14.043	50.538	1.00	11.38
ATOM	14588	N	ASP	2184	20.608	-15.309	50.388	1.00	14.00
ATOM	14589	CA	ASP	2184	21.169	-16.162	49.346	1.00	16.54
ATOM	14590	CB	ASP	2184	20.341	-17.433	49.180	1.00	16.86
ATOM	14591	CG	ASP	2184	20.723	-18.536	50.138	1.00	20.93
ATOM	14592	CD1	ASP	2184	21.818	-18.450	50.747	1.00	22.21
ATOM	14593	CD2	ASP	2184	19.945	-19.499	50.258	1.00	20.03
ATOM	14594	C	ASE	2184	21.177	-19.430	47.986	1.00	14.79
ATOM	14595	C	ASE	2184	20.295	-14.678	47.684	1.00	15.78
ATOM	14596	N	LEU	2185	22.200	-19.764	47.206	1.00	14.38
ATOM	14597	CA	LEU	2185	22.265	-19.277	45.881	1.00	13.28
ATOM	14598	CB	LEU	2185	23.614	-19.018	45.332	1.00	15.03
ATOM	14599	CG	LEU	2185	24.213	-13.667	45.780	1.00	16.23
ATOM	14600	CD1	LEU	2185	25.446	-11.358	44.988	1.00	13.48
ATOM	14601	CD2	LEU	2185	24.181	-12.356	45.177	1.00	14.68
ATOM	14602	C	LEU	2185	21.638	-16.337	45.711	1.00	13.93
ATOM	14603	C	LEU	2185	22.116	-17.851	45.418	1.00	17.13
ATOM	14604	N	PEQ	2186	20.525	-16.391	44.488	1.00	14.13
ATOM	14605	B	PEQ	2186	19.831	-15.118	43.181	1.00	15.83
ATOM	14606	CA	PEQ	2186	19.847	-17.118	43.812	1.00	14.43
ATOM	14607	B	PEQ	2186	18.110	-16.891	43.186	1.00	15.43
ATOM	14608	CG	PEQ	2186	18.817	-15.488	43.681	1.00	15.67
ATOM	14609	C	PEQ	2186	20.584	-18.317	42.683	1.00	14.33
ATOM	14610	C	PEQ	2186	21.688	-17.581	42.100	1.00	15.03
ATOM	14611	N	PRE	2187	19.945	-19.318	42.101	1.00	13.63
ATOM	14612	CA	PRE	2187	20.481	-19.981	40.877	1.00	12.48
ATOM	14613	B	PRE	2187	19.404	-20.938	40.480	1.00	10.11
ATOM	14614	CG	PRE	2187	19.660	-21.527	39.131	1.00	11.16
ATOM	14615	CD1	PRE	2187	20.749	-21.367	38.904	1.00	11.33
ATOM	14616	CD2	PRE	2187	18.751	-21.700	38.688	1.00	11.80
ATOM	14617	CE1	PRE	2187	20.904	-22.909	37.681	1.00	14.13
ATOM	14618	CE2	PRE	2187	18.914	-21.899	36.831	1.00	13.35
ATOM	14619	CG	PRE	2187	20.008	-22.309	36.612	1.00	13.60
ATOM	14620	C	PRE	2187	20.906	-19.004	39.849	1.00	11.25
ATOM	14621	C	PRE	2187	20.114	-18.083	39.412	1.00	11.41
ATOM	14622	N	MET	2188	22.147	-19.181	39.118	1.00	11.61
ATOM	14623	CA	MET	2188	22.762	-18.551	38.275	1.00	11.77
ATOM	14624	CB	MET	2188	22.055	-19.863	36.943	1.00	13.96
ATOM	14625	CG	MET	2188	22.956	-18.723	35.707	1.00	16.90
ATOM	14626	CD	MET	2188	24.400	-19.853	35.851	1.00	12.86
ATOM	14627	CE	MET	2188	23.813	-21.337	35.069	1.00	19.25
ATOM	14628	C	MET	2188	22.708	-17.313	38.512	1.00	14.59
ATOM	14629	O	MET	2188	22.648	-16.116	37.584	1.00	16.18
ATOM	14630	N	ALA	2189	22.913	-19.199	39.775	1.00	13.29
ATOM	14631	CA	ALA	2189	22.986	-19.167	40.099	1.00	13.72
ATOM	14632	CB	ALA	2189	22.112	-14.869	41.333	1.00	11.70
ATOM	14633	C	ALA	2189	24.477	-14.347	40.359	1.00	14.21
ATOM	14634	O	ALA	2189	24.719	-13.983	40.633	1.00	13.89
ATOM	14635	N	TYR	2190	25.117	-15.703	40.178	1.00	13.28
ATOM	14636	CA	TYR	2190	26.133	-13.433	40.483	1.00	13.93
ATOM	14637	CB	TYR	2190	27.115	-15.114	41.946	1.00	12.91
ATOM	14638	CG	TYR	2190	26.033	-17.035	42.115	1.00	11.36
ATOM	14639	CD1	TYR	2190	27.524	-18.156	42.154	1.00	11.93
ATOM	14640	CE1	TYR	2190	27.987	-19.358	43.890	1.00	12.63
ATOM	14641	CD2	TYR	2190	25.896	-17.138	43.627	1.00	13.06
ATOM	14642	CE2	TYR	2190	24.914	-18.360	43.183	1.00	13.68
ATOM	14643	CE	TYR	2190	25.783	-19.461	43.833	1.00	14.73
ATOM	14644	CH	TYR	2190	25.319	-20.692	44.129	1.00	15.33
ATOM	14645	C	TYR	2190	27.630	-16.363	43.415	1.00	14.61
ATOM	14646	O	TYR	2190	28.681	-16.811	43.867	1.00	14.13
ATOM	14647	N	ALA	2191	27.194	-16.319	40.167	1.00	13.79
ATOM	14648	CA	ALA	2191	27.843	-17.061	37.754	1.00	14.39
ATOM	14649	CB	ALA	2191	26.809	-17.072	35.475	1.00	13.74
ATOM	14650	C	ALA	2191	29.111	-16.933	38.896	1.00	13.19
ATOM	14651	O	ALA	2191	30.371	-13.240	36.131	1.00	12.13
ATOM	14652	N	THR	2192	29.381	-15.138	37.398	1.00	12.83
ATOM	14653	CA	THR	2192	30.829	-14.838	36.405	1.00	14.33
ATOM	14654	CB	THR	2192	30.560	-13.724	35.388	1.00	13.14
ATOM	14655	CG1	THR	2192	29.876	-12.583	35.146	1.00	13.87
ATOM	14656	CG2	THR	2192	30.036	-14.580	34.154	1.00	15.37
ATOM	14657	C	THR	2192	30.828	-13.429	37.235	1.00	13.87
ATOM	14658	O	THR	2192	32.877	-12.129	36.312	1.00	15.41

ATOM	14659	N	PRO	2193	32.073	-11.042	38.653	1.00	16.19
ATOM	14660	CD	PRO	2193	31.343	-11.538	37.490	1.00	16.85
ATOM	14661	CA	PRO	2193	31.315	-11.017	39.124	1.00	16.55
ATOM	14662	CB	PRO	2193	32.803	-11.702	38.990	1.00	18.64
ATOM	14663	CG	PRO	2193	34.343	-11.117	38.457	1.00	17.11
ATOM	14664	C	PRO	2193	31.465	-10.834	38.937	1.00	15.31
ATOM	14665	O	PRO	2193	30.831	-11.054	38.874	1.00	15.59
ATOM	14666	N	GLU	2194	31.454	-10.129	37.318	1.00	16.35
ATOM	14667	CA	GLU	2194	30.687	-10.008	37.419	1.00	17.91
ATOM	14668	CB	GLU	2194	30.858	-10.711	37.848	1.00	21.31
ATOM	14669	CG	GLU	2194	31.115	-10.002	38.630	1.00	30.85
ATOM	14670	CD	GLU	2194	32.469	-11.821	34.149	1.00	35.36
ATOM	14671	OE1	GLU	2194	31.524	-10.104	37.537	1.00	30.64
ATOM	14672	OE2	GLU	2194	33.450	-11.000	33.596	1.00	30.00
ATOM	14673	C	GLU	2194	29.266	-10.248	37.357	1.00	17.81
ATOM	14674	O	GLU	2194	28.002	-10.721	38.304	1.00	17.67
ATOM	14675	N	GLN	2195	28.812	-10.550	37.438	1.00	15.10
ATOM	14676	CA	GLN	2195	27.299	-10.556	37.744	1.00	16.01
ATOM	14677	CB	GLN	2195	28.642	-11.105	36.934	1.00	17.15
ATOM	14678	CG	GLN	2195	28.111	-11.558	37.481	1.00	21.26
ATOM	14679	CD	GLN	2195	26.948	-11.708	34.700	1.00	20.19
ATOM	14680	OE1	GLN	2195	24.964	-11.558	37.003	1.00	25.11
ATOM	14681	OE2	GLN	2195	26.885	-11.105	36.747	1.00	20.65
ATOM	14682	C	GLN	2195	27.836	-11.708	36.118	1.00	14.45
ATOM	14683	O	GLN	2195	28.610	-11.105	35.789	1.00	14.84
ATOM	14684	N	ALA	2196	27.966	-11.147	36.882	1.00	11.11
ATOM	14685	CA	ALA	2196	27.908	-11.000	41.129	1.00	11.30
ATOM	14686	CB	ALA	2196	29.105	-11.145	41.100	1.00	11.13
ATOM	14687	C	ALA	2196	27.898	-11.147	41.101	1.00	11.64
ATOM	14688	O	ALA	2196	27.146	-11.000	41.117	1.00	11.62
ATOM	14689	N	HRH	2197	26.717	-11.147	41.101	1.00	11.15
ATOM	14690	CA	HRH	2197	26.809	-11.000	41.104	1.00	11.19
ATOM	14691	CB	HRH	2197	26.158	-11.147	41.111	1.00	11.11
ATOM	14692	CG	HRH	2197	27.100	-11.147	41.111	1.00	11.74
ATOM	14693	CD	HRH	2197	28.672	-11.147	41.111	1.00	11.16
ATOM	14694	OE1	HRH	2197	26.100	-11.147	41.111	1.00	11.11
ATOM	14695	OE2	HRH	2197	26.100	-11.147	41.111	1.00	11.11
ATOM	14696	C	HRH	2197	26.100	-11.147	41.111	1.00	11.11
ATOM	14697	O	HRH	2197	26.100	-11.147	41.111	1.00	11.11
ATOM	14698	N	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14699	CA	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14700	CB	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14701	CG	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14702	CD	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14703	OE1	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14704	OE2	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14705	C	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14706	O	GLU	2198	26.100	-11.147	41.111	1.00	11.11
ATOM	14707	N	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14708	CA	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14709	CB	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14710	CG	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14711	CD	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14712	OE1	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14713	OE2	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14714	C	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14715	O	ASN	2199	26.100	-11.147	41.111	1.00	11.11
ATOM	14716	N	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14717	CA	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14718	CB	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14719	CG	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14720	CD	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14721	OE1	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14722	OE2	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14723	C	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14724	O	ALA	2200	26.100	-11.147	41.111	1.00	11.11
ATOM	14725	N	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14726	CA	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14727	CB	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14728	CG	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14729	CD	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14730	OE1	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14731	OE2	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14732	C	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14733	O	THR	2201	26.100	-11.147	41.111	1.00	11.11
ATOM	14734	N	VAL	2202	26.100	-11.147	41.111	1.00	11.11
ATOM	14735	CA	VAL	2202	26.100	-11.147	41.111	1.00	11.11

ATOM	14736	CB	VAL	2203	20.887	-9.302	47.970	1.00	17.90
ATOM	14737	CG1	VAL	2203	20.317	-9.968	49.200	1.00	22.76
ATOM	14738	CG2	VAL	2203	20.290	-10.031	48.713	1.00	21.66
ATOM	14739	C	VAL	2203	20.957	-7.067	49.116	1.00	13.49
ATOM	14740	O	VAL	2203	20.281	-6.904	50.122	1.00	11.71
ATOM	14741	N	MET	2204	22.182	-6.570	49.026	1.00	11.79
ATOM	14742	CA	MET	2204	22.543	-5.796	50.136	1.00	15.57
ATOM	14743	CB	MET	2204	24.224	-5.501	49.815	1.00	16.63
ATOM	14744	CG	MET	2204	25.104	-6.714	49.887	1.00	18.75
ATOM	14745	SD	MET	2204	25.263	-7.568	51.497	1.00	19.13
ATOM	14746	CE	MET	2204	26.537	-6.707	51.339	1.00	18.60
ATOM	14747	C	MET	2204	21.993	-4.440	50.308	1.00	14.10
ATOM	14748	O	MET	2204	21.556	-4.147	51.421	1.00	13.48
ATOM	14749	N	APG	2205	21.539	-3.781	49.208	1.00	13.14
ATOM	14750	CA	APG	2205	20.949	-2.517	48.284	1.00	13.16
ATOM	14751	CB	APG	2205	20.887	-1.867	47.898	1.00	13.73
ATOM	14752	CG	APG	2205	22.129	-1.512	47.283	1.00	15.34
ATOM	14753	CD	APG	2205	22.044	-0.519	46.141	1.00	14.72
ATOM	14754	NE	APG	2205	23.283	-0.781	47.149	1.00	16.35
ATOM	14755	CZ	APG	2205	23.581	-1.281	47.169	1.00	15.45
ATOM	14756	NH1	APG	2205	22.591	-2.087	47.960	1.00	16.64
ATOM	14757	NH2	APG	2205	24.717	-0.817	47.691	1.00	16.81
ATOM	14758	C	APG	2205	19.601	-2.340	47.819	1.00	15.31
ATOM	14759	O	APG	2205	19.602	-1.859	48.510	1.00	14.24
ATOM	14760	N	ALA	2206	19.671	-3.934	47.601	1.00	17.63
ATOM	14761	CA	ALA	2206	17.710	-4.766	48.090	1.00	14.83
ATOM	14762	CB	ALA	2206	17.182	-5.619	47.792	1.00	14.81
ATOM	14763	C	ALA	2206	17.717	-4.538	47.609	1.00	15.11
ATOM	14764	O	ALA	2206	16.641	-4.617	47.169	1.00	15.01
ATOM	14765	N	GLY	2207	18.838	-4.608	47.571	1.00	14.33
ATOM	14766	CA	GLY	2207	18.932	-4.834	47.666	1.00	14.24
ATOM	14767	C	GLY	2207	19.813	-5.568	47.119	1.00	14.79
ATOM	14768	O	GLY	2207	19.963	-6.068	47.430	1.00	13.55
ATOM	14769	N	ALA	2208	20.584	-6.511	47.710	1.00	15.05
ATOM	14770	CA	ALA	2208	21.271	-5.838	47.190	1.00	15.56
ATOM	14771	CB	ALA	2208	21.478	-8.860	47.686	1.00	14.49
ATOM	14772	C	ALA	2208	22.568	-7.331	47.310	1.00	15.56
ATOM	14773	O	ALA	2208	22.981	-6.337	47.940	1.00	14.11
ATOM	14774	N	ASN	2209	22.216	-8.111	47.117	1.00	14.56
ATOM	14775	CA	ASN	2209	24.516	-7.753	47.710	1.00	16.30
ATOM	14776	CB	ASN	2209	24.596	-5.831	47.216	1.00	17.22
ATOM	14777	CG	ASN	2209	25.534	-7.117	47.994	1.00	15.32
ATOM	14778	GD1	ASN	2209	25.458	-5.834	47.868	1.00	20.45
ATOM	14779	ND2	ASN	2209	21.707	-5.831	47.711	1.00	13.67
ATOM	14780	C	ASN	2209	25.579	-8.641	47.139	1.00	16.35
ATOM	14781	O	ASN	2209	26.776	-8.330	47.194	1.00	16.50
ATOM	14782	N	MET	2210	25.111	-9.791	47.594	1.00	16.82
ATOM	14783	CA	MET	2210	25.996	-10.711	47.051	1.00	16.51
ATOM	14784	CB	MET	2210	26.474	-11.061	47.197	1.00	18.41
ATOM	14785	CG	MET	2210	27.305	-12.835	47.798	1.00	19.82
ATOM	14786	SD	MET	2210	27.830	-11.739	47.264	1.00	21.89
ATOM	14787	CE	MET	2210	29.505	-13.237	47.418	1.00	21.07
ATOM	14788	C	MET	2210	29.261	-12.634	47.013	1.00	16.91
ATOM	14789	O	MET	2210	28.044	-11.734	47.109	1.00	14.74
ATOM	14790	N	VAL	2211	26.009	-12.110	47.041	1.00	15.70
ATOM	14791	CA	VAL	2211	25.444	-12.938	47.979	1.00	16.74
ATOM	14792	CB	VAL	2211	25.793	-12.306	47.613	1.00	19.57
ATOM	14793	CG	VAL	2211	25.681	-13.333	47.523	1.00	24.64
ATOM	14794	CD	VAL	2211	24.899	-11.113	47.342	1.00	18.37
ATOM	14795	C	VAL	2211	25.982	-14.338	47.982	1.00	17.23
ATOM	14796	O	VAL	2211	27.131	-14.533	47.883	1.00	17.13
ATOM	14797	N	LYS	2212	25.133	-15.333	47.757	1.00	18.13
ATOM	14798	CA	LYS	2212	23.533	-16.333	47.757	1.00	17.79
ATOM	14799	CB	LYS	2212	24.633	-17.333	47.633	1.00	17.25
ATOM	14800	CG	LYS	2212	24.933	-19.333	47.757	1.00	17.85
ATOM	14801	CD	LYS	2212	24.533	-19.773	47.933	1.00	17.98
ATOM	14802	CE	LYS	2212	23.633	-19.733	47.757	1.00	19.44
ATOM	14803	NZ	LYS	2212	22.617	-20.723	47.757	1.00	14.76
ATOM	14804	C	LYS	2212	23.527	-17.353	47.333	1.00	14.84
ATOM	14805	O	LYS	2212	24.612	-16.347	47.583	1.00	13.54
ATOM	14806	N	ILE	2213	25.548	-13.303	47.133	1.00	17.51
ATOM	14807	CA	ILE	2213	26.643	-18.310	47.650	1.00	17.03
ATOM	14808	CB	ILE	2213	27.620	-17.303	47.344	1.00	17.12
ATOM	14809	CG	ILE	2213	27.019	-16.153	47.418	1.00	14.75
ATOM	14810	CD	ILE	2213	28.997	-14.333	47.444	1.00	17.11
ATOM	14811	C	ILE	2213	29.984	-16.858	47.633	1.00	17.81
ATOM	14812	O	ILE	2213	29.113	-17.333	47.757	1.00	17.13

ATOM	14813	O	ILE	2213	27.899	-26.384	48.646	1.00	17.01
ATOM	14814	N	GLU	2214	26.623	-26.908	48.868	1.00	17.74
ATOM	14815	CA	GLU	2214	26.960	-27.331	48.888	1.00	18.18
ATOM	14816	CB	GLU	2214	25.729	-33.170	46.516	1.00	19.12
ATOM	14817	CG	GLU	2214	24.448	-37.984	43.759	1.00	20.19
ATOM	14818	CD	GLU	2214	22.272	-43.676	40.851	1.00	23.13
ATOM	14819	OE1	GLU	2214	22.371	-34.392	45.821	1.00	21.52
ATOM	14820	OE2	GLU	2214	22.243	-37.657	47.563	1.00	22.59
ATOM	14821	C	GLU	2214	23.086	-37.665	45.913	1.00	18.12
ATOM	14821	O	GLU	2214	23.089	-37.300	44.771	1.00	17.83
ATOM	14822	N	GLY	2215	29.048	-32.467	46.761	1.00	19.15
ATOM	14824	CA	GLY	2215	30.148	-32.877	45.484	1.00	21.18
ATOM	14825	C	GLY	2215	31.491	-32.915	46.181	1.00	21.73
ATOM	14826	O	GLY	2215	31.679	-32.322	47.249	1.00	20.66
ATOM	14827	N	GLY	2216	32.434	-24.629	45.575	1.00	22.11
ATOM	14828	CA	GLY	2216	33.749	-24.765	46.176	1.00	21.89
ATOM	14829	C	GLY	2216	34.841	-25.388	45.390	1.00	21.17
ATOM	14830	O	GLY	2216	34.681	-27.676	45.441	1.00	21.39
ATOM	14831	N	GLU	2215	29.967	-34.174	45.166	1.00	22.46
ATOM	14832	CA	GLU	2215	31.140	-33.869	44.731	1.00	23.13
ATOM	14833	CB	GLU	2215	33.119	-34.954	44.181	1.00	23.77
ATOM	14834	CG	GLU	2215	35.116	-35.130	43.171	1.00	34.17
ATOM	14835	CD	GLU	2215	40.210	-34.481	42.458	1.00	37.53
ATOM	14836	OE1	GLU	2215	36.934	-27.126	45.880	1.00	41.19
ATOM	14837	OE2	GLU	2215	41.405	-24.775	44.111	1.00	46.10
ATOM	14838	C	GLU	2215	36.881	-32.369	45.333	1.00	20.77
ATOM	14839	O	GLU	2215	37.519	-31.817	46.581	1.00	19.81
ATOM	14840	N	LEU	2218	31.930	-35.185	41.690	1.00	19.83
ATOM	14841	CA	LEU	2218	33.678	-35.191	41.376	1.00	18.11
ATOM	14842	CB	LEU	2218	34.673	-27.922	40.601	1.00	20.03
ATOM	14843	CG	LEU	2218	37.243	-27.946	41.031	1.00	18.78
ATOM	14844	CD1	LEU	2218	31.217	-32.013	40.887	1.00	17.40
ATOM	14845	OE2	LEU	2218	31.032	-32.440	41.318	1.00	16.23
ATOM	14846	LE3	LEU	2218	37.191	-36.881	39.871	1.00	15.72
ATOM	14847	CD1	LEU	2218	31.674	-33.860	41.189	1.00	16.13
ATOM	14848	NE1	LEU	2218	31.315	-35.150	41.144	1.00	15.78
ATOM	14849	OE2	LEU	2218	36.811	-31.731	41.161	1.00	17.11
ATOM	14850	CD2	LEU	2219	36.985	-26.130	39.719	1.00	17.00
ATOM	14851	CH2	LEU	2218	29.812	-36.646	40.101	1.00	15.11
ATOM	14852	C	LEU	2218	35.374	-36.989	41.109	1.00	17.12
ATOM	14853	O	LEU	2218	31.377	-39.950	41.177	1.00	17.08
ATOM	14854	N	LEU	2219	34.793	-26.790	43.133	1.00	19.71
ATOM	14855	CA	LEU	2219	34.313	-19.700	43.731	1.00	18.86
ATOM	14856	CB	LEU	2219	33.130	-19.746	44.809	1.00	18.12
ATOM	14857	CG	LEU	2219	32.749	-20.369	44.396	1.00	21.07
ATOM	14858	CD1	LEU	2219	36.878	-20.463	43.439	1.00	21.15
ATOM	14859	CD2	LEU	2219	31.158	-19.030	43.433	1.00	18.14
ATOM	14860	C	LEU	2219	35.249	-18.610	44.381	1.00	13.10
ATOM	14861	O	LEU	2219	35.063	-17.433	44.631	1.00	16.47
ATOM	14862	N	VAL	2220	36.482	-19.178	44.575	1.00	18.17
ATOM	14863	CA	VAL	2220	33.886	-18.413	44.161	1.00	18.12
ATOM	14864	CB	VAL	2220	38.371	-19.133	41.336	1.00	21.78
ATOM	14865	CG1	VAL	2220	40.041	-18.231	41.334	1.00	21.13
ATOM	14866	CG2	VAL	2220	38.906	-20.415	40.731	1.00	20.40
ATOM	14867	C	VAL	2220	37.714	-16.336	41.666	1.00	18.16
ATOM	14868	O	VAL	2220	37.671	-16.097	41.147	1.00	18.12
ATOM	14869	N	GLU	2221	37.864	-16.792	43.373	1.00	11.13
ATOM	14870	CA	GLU	2221	38.010	-15.162	42.336	1.00	18.16
ATOM	14871	CB	GLU	2221	38.290	-15.563	41.331	1.00	21.13
ATOM	14872	CG	GLU	2221	38.200	-14.119	40.333	1.00	20.16
ATOM	14873	CD	GLU	2221	37.539	-14.709	39.113	1.00	30.40
ATOM	14874	OE1	GLU	2221	37.805	-15.133	38.333	1.00	21.19
ATOM	14875	OE2	GLU	2221	37.517	-14.421	38.633	1.00	31.16
ATOM	14876	C	GLU	2221	38.811	-14.167	41.333	1.00	18.16
ATOM	14877	O	GLU	2221	38.965	-14.336	43.433	1.00	18.17
ATOM	14878	N	THR	2222	37.617	-15.116	41.916	1.00	17.13
ATOM	14879	CA	THR	2222	34.307	-14.341	43.133	1.00	21.19
ATOM	14880	CB	THR	2222	37.161	-15.113	42.333	1.00	17.17
ATOM	14881	CG1	THR	2222	33.115	-13.576	41.333	1.00	19.13
ATOM	14882	CG2	THR	2222	31.882	-14.435	43.133	1.00	18.18
ATOM	14883	C	THR	2222	31.336	-13.845	44.633	1.00	16.18
ATOM	14884	O	THR	2222	32.974	-12.741	44.333	1.00	18.16
ATOM	14885	N	VAL	2223	34.681	-14.767	45.566	1.00	17.17
ATOM	14886	CA	VAL	2223	34.654	-14.412	47.393	1.00	17.13
ATOM	14887	CB	VAL	2223	34.958	-13.631	47.493	1.00	18.15
ATOM	14888	CG1	VAL	2223	34.953	-15.211	49.173	1.00	20.17
ATOM	14889	CG2	VAL	2223	33.932	-16.721	48.651	1.00	18.14

ATOM	14890	C	VAL	2223	35.666	-11.320	47.329	1.00	19.79
ATOM	14891	O	VAL	2223	35.352	-11.349	48.024	1.00	17.16
ATOM	14892	N	GLN	2224	26.895	-11.489	46.827	1.00	18.72
ATOM	14893	CA	GLN	2224	27.940	-11.511	47.065	1.00	21.39
ATOM	14894	CE	GLN	2224	29.273	-11.921	46.846	1.00	24.26
ATOM	14895	CO	GLN	2224	39.725	-14.331	46.648	1.00	29.51
ATOM	14896	CG	GLN	2224	41.050	-14.651	45.953	1.00	33.18
ATOM	14897	OE1	GLN	2224	41.196	-14.464	44.728	1.00	33.20
ATOM	14898	NE2	GLN	2224	42.018	-14.110	45.717	1.00	32.66
ATOM	14899	C	GLN	2224	27.502	-11.268	46.554	1.00	19.68
ATOM	14900	O	GLN	2224	27.618	-10.149	47.153	1.00	19.34
ATOM	14901	N	MET	2225	26.978	-11.108	47.371	1.00	19.61
ATOM	14902	CA	MET	2225	26.552	-9.849	44.744	1.00	18.40
ATOM	14903	CE	MET	2225	26.306	-10.016	43.249	1.00	18.27
ATOM	14904	CG	MET	2225	27.591	-10.314	42.485	1.00	22.00
ATOM	14905	CD	MET	2225	27.353	-10.419	40.506	1.00	21.69
ATOM	14906	SE	MET	2225	37.447	-8.711	40.159	1.00	20.84
ATOM	14907	C	MET	2225	25.584	-9.116	45.445	1.00	17.69
ATOM	14908	O	MET	2225	25.177	-8.313	45.319	1.00	16.91
ATOM	14909	N	LEU	2226	24.411	-10.363	45.864	1.00	17.48
ATOM	14910	CA	LEU	2226	23.228	-9.111	45.145	1.00	17.31
ATOM	14911	CB	LEU	2226	22.145	-10.388	44.819	1.00	16.18
ATOM	14912	CG	LEU	2226	21.183	-11.017	44.931	1.00	14.50
ATOM	14913	CD	LEU	2226	20.554	-11.710	44.059	1.00	10.81
ATOM	14914	CE	LEU	2226	20.181	-9.923	43.438	1.00	15.10
ATOM	14915	C	LEU	2226	23.662	-8.896	45.864	1.00	17.88
ATOM	14916	O	LEU	2226	23.263	-7.777	45.118	1.00	16.44
ATOM	14917	N	THR	2227	24.429	-8.161	45.638	1.00	20.51
ATOM	14918	CA	THR	2227	24.889	-8.022	45.213	1.00	24.11
ATOM	14919	CB	THR	2227	25.888	-10.378	50.150	1.00	25.67
ATOM	14920	CG1	THR	2227	25.184	-11.111	50.850	1.00	29.14
ATOM	14921	CG2	THR	2227	26.191	-8.814	51.905	1.00	31.47
ATOM	14922	C	THR	2227	25.547	-7.711	45.881	1.00	24.53
ATOM	14923	O	THR	2227	25.181	-6.813	50.845	1.00	25.56
ATOM	14924	N	GLU	2228	26.447	-10.146	45.834	1.00	25.38
ATOM	14925	CA	GLU	2228	27.114	-9.159	46.537	1.00	26.35
ATOM	14926	CB	GLU	2228	28.383	-8.181	45.838	1.00	30.60
ATOM	14927	CG	GLU	2228	28.165	-7.188	45.437	1.00	31.83
ATOM	14928	CD	GLU	2228	29.468	-6.173	45.838	1.00	33.21
ATOM	14929	OE1	GLU	2228	40.557	-11.110	46.412	1.00	35.94
ATOM	14930	OE2	GLU	2228	29.168	-7.188	44.837	1.00	28.51
ATOM	14931	C	GLU	2228	26.190	-10.111	45.190	1.00	26.51
ATOM	14932	O	GLU	2228	26.473	-11.134	45.116	1.00	26.57
ATOM	14933	N	ARG	2229	24.943	-8.431	45.747	1.00	23.68
ATOM	14934	CA	ARG	2229	24.694	-11.699	45.138	1.00	22.45
ATOM	14935	CB	ARG	2229	23.456	-10.199	45.893	1.00	21.74
ATOM	14936	CG	ARG	2229	24.481	-10.611	44.679	1.00	21.55
ATOM	14937	CD	ARG	2229	24.102	-10.111	43.119	1.00	19.55
ATOM	14938	NE	ARG	2229	25.257	-10.233	45.138	1.00	16.72
ATOM	14939	C	ARG	2229	26.518	-8.111	45.696	1.00	14.19
ATOM	14940	NH1	ARG	2229	26.918	-8.107	45.104	1.00	14.68
ATOM	14941	NH2	ARG	2229	27.311	-7.143	45.142	1.00	16.15
ATOM	14942	C	ARG	2229	22.896	-11.111	45.144	1.00	20.95
ATOM	14943	O	ARG	2229	-1.753	-11.699	45.889	1.00	21.04
ATOM	14944	N	ALA	2230	23.264	-11.110	45.517	1.00	19.62
ATOM	14945	CA	ALA	2230	23.362	-11.699	50.646	1.00	17.61
ATOM	14946	CB	ALA	2230	1.790	-10.111	50.602	1.00	20.44
ATOM	14947	C	ALA	2230	-1.365	-8.111	50.611	1.00	18.50
ATOM	14948	O	ALA	2230	0.374	-8.111	50.127	1.00	17.76
ATOM	14949	N	VAL	2231	1.335	-8.111	50.154	1.00	17.15
ATOM	14950	CA	VAL	2231	20.374	-8.111	50.144	1.00	17.71
ATOM	14951	CB	VAL	2231	19.779	-8.111	49.183	1.00	17.59
ATOM	14952	CG1	VAL	2231	18.649	-8.111	49.317	1.00	17.39
ATOM	14953	CG2	VAL	2231	22.135	-8.111	49.339	1.00	17.32
ATOM	14954	C	VAL	2231	30.834	-8.111	50.183	1.00	17.83
ATOM	14955	O	VAL	2231	31.576	-8.111	50.623	1.00	18.81
ATOM	14956	N	PRO	2232	30.412	-8.111	50.450	1.00	16.77
ATOM	14957	CA	PRO	2232	29.711	-8.111	50.376	1.00	17.75
ATOM	14958	CB	PRO	2232	30.864	-10.111	50.145	1.00	16.25
ATOM	14959	CG	PRO	2232	30.503	-8.111	50.668	1.00	18.97
ATOM	14960	CD	PRO	2232	29.398	-8.111	50.529	1.00	18.75
ATOM	14961	C	PRO	2232	30.191	-11.699	50.557	1.00	15.31
ATOM	14962	NE	PRO	2232	29.948	-11.699	50.093	1.00	15.40
ATOM	14963	N	VAL	2233	30.887	-12.920	50.576	1.00	16.70
ATOM	14964	CA	VAL	2233	30.465	-13.753	51.096	1.00	15.99
ATOM	14965	CB	VAL	2233	31.179	-13.173	50.777	1.00	17.33
ATOM	14966	CG1	VAL	2233	30.743	-13.173	50.781	1.00	15.74

ATOM	14967	CG2	VAL	2237	31.189	-13.105	49.708	1.00	16.38
ATOM	14968	C	VAL	2237	30.816	-14.958	52.924	1.00	16.80
ATOM	14969	O	VAL	2237	31.250	-15.274	53.681	1.00	16.90
ATOM	14970	N	CYS	2234	29.217	-15.695	52.838	1.00	15.58
ATOM	14971	CA	CYS	2234	29.155	-16.915	53.999	1.00	16.50
ATOM	14972	CB	CYS	2234	27.883	-16.954	54.281	1.00	15.73
ATOM	14973	SG	CYS	2234	27.569	-18.518	55.159	1.00	16.61
ATOM	14974	C	CYS	2234	29.140	-18.027	52.552	1.00	18.28
ATOM	14975	O	CYS	2234	28.433	-17.992	51.544	1.00	19.80
ATOM	14976	N	GLY	2235	30.027	-18.990	52.725	1.00	17.80
ATOM	14977	CA	GLY	2235	30.182	-20.693	51.841	1.00	17.79
ATOM	14978	O	GLY	2235	29.083	-21.125	52.090	1.00	16.35
ATOM	14979	C	GLY	2235	28.730	-21.011	53.060	1.00	16.55
ATOM	14980	N	HIS	2236	28.989	-22.173	51.119	1.00	16.49
ATOM	14981	CA	HIS	2236	29.081	-23.169	51.378	1.00	19.20
ATOM	14982	CB	HIS	2236	28.746	-22.890	50.790	1.00	19.17
ATOM	14983	CG	HIS	2236	29.479	-23.800	51.058	1.00	20.49
ATOM	14984	CD2	HIS	2236	29.484	-24.915	51.784	1.00	21.15
ATOM	14985	ND1	HIS	2236	29.187	-23.161	51.018	1.00	20.57
ATOM	14986	DE1	HIS	2236	29.771	-24.178	51.778	1.00	20.12
ATOM	14987	NE2	HIS	2236	29.177	-25.190	51.533	1.00	19.89
ATOM	14988	H	HIS	2236	28.379	-24.410	50.666	1.00	19.78
ATOM	14989	H	HIS	2236	28.571	-24.443	49.475	1.00	18.95
ATOM	14990	H	LEU	2237	29.843	-25.347	51.137	1.00	20.71
ATOM	14991	HA	LEU	2237	29.877	-26.886	50.986	1.00	22.90
ATOM	14992	HB	LEU	2237	29.187	-26.880	51.383	1.00	21.03
ATOM	14993	HG	LEU	2237	29.889	-26.887	50.877	1.00	21.69
ATOM	14994	HD	LEU	2237	29.176	-26.144	51.773	1.00	20.20
ATOM	14995	HD2	LEU	2237	29.647	-27.244	49.441	1.00	22.91
ATOM	14996	I	LEU	2237	28.547	-27.881	51.565	1.00	22.62
ATOM	14997	O	LEU	2237	29.201	-27.968	52.176	1.00	22.68
ATOM	14998	N	GLY	2237	28.770	-28.628	50.779	1.00	23.03
ATOM	14999	CA	GLY	2237	28.181	-28.624	51.561	1.00	22.77
ATOM	15000	C	GLY	2237	28.990	-29.190	50.590	1.00	24.42
ATOM	15001	O	GLY	2237	28.733	-29.567	49.879	1.00	24.62
ATOM	15002	N	LEU	2238	29.634	-29.665	51.667	1.00	25.75
ATOM	15003	CA	LEU	2238	29.500	-30.715	49.801	1.00	27.18
ATOM	15004	CB	LEU	2238	28.741	-31.481	50.873	1.00	27.84
ATOM	15005	CG	LEU	2238	29.106	-32.771	49.822	1.00	29.30
ATOM	15006	CD1	LEU	2238	29.873	-32.770	50.752	1.00	29.18
ATOM	15007	CD2	LEU	2238	29.199	-33.683	49.348	1.00	29.54
ATOM	15008	C	LEU	2238	29.890	-34.715	49.114	1.00	27.78
ATOM	15009	O	LEU	2238	28.770	-34.681	50.181	1.00	29.81
ATOM	15010	N	THR	2240	24.391	-38.806	48.121	1.00	24.58
ATOM	15011	CA	THR	2240	24.996	-39.779	47.714	1.00	24.57
ATOM	15012	CB	THR	2240	25.190	-40.830	46.894	1.00	25.13
ATOM	15013	OG1	THR	2240	26.030	-40.898	45.890	1.00	23.49
ATOM	15014	CG2	THR	2240	26.330	-40.687	47.810	1.00	26.35
ATOM	15015	C	THR	2240	25.751	-41.771	46.743	1.00	24.62
ATOM	15016	O	THR	2240	25.443	-43.075	45.661	1.00	23.33
ATOM	15017	N	PRO	2241	21.565	-47.433	47.400	1.00	24.68
ATOM	15018	CD	PRO	2241	21.409	-46.838	48.389	1.00	25.30
ATOM	15019	CA	PRO	2241	20.967	-47.732	46.741	1.00	24.86
ATOM	15020	CB	PRO	2241	19.783	-47.703	47.768	1.00	24.84
ATOM	15021	CG	PRO	2241	20.136	-48.090	48.575	1.00	27.84
ATOM	15022	C	PRO	2241	20.111	-47.700	48.337	1.00	24.52
ATOM	15023	H	PRO	2241	18.738	-47.533	44.334	1.00	24.53
ATOM	15024	N	GLN	2242	20.878	-45.734	45.036	1.00	24.22
ATOM	15025	CA	GLN	2242	20.733	-45.335	43.687	1.00	23.18
ATOM	15026	CP	GLN	2242	21.701	-44.734	43.579	1.00	21.41
ATOM	15027	CG	GLN	2242	20.743	-42.785	43.917	1.00	19.29
ATOM	15028	CT	GLN	2242	21.764	-41.801	44.181	1.00	20.80
ATOM	15029	OE1	GLN	2242	21.793	-41.430	43.498	1.00	18.83
ATOM	15030	NE2	GLN	2242	21.441	-40.737	45.143	1.00	17.73
ATOM	15031	C	GLN	2242	21.763	-40.333	42.662	1.00	21.98
ATOM	15032	O	GLN	2242	20.693	-40.261	41.450	1.00	20.71
ATOM	15033	N	SER	2243	23.757	-27.259	42.967	1.00	20.88
ATOM	15034	CA	SER	2243	23.753	-28.271	42.012	1.00	20.30
ATOM	15035	CB	SER	2243	24.843	-28.559	42.293	1.00	20.51
ATOM	15036	CG	SER	2243	24.851	-27.405	42.069	1.00	18.03
ATOM	15037	C	SER	2243	21.772	-27.587	42.140	1.00	20.19
ATOM	15038	O	SER	2243	22.181	-29.647	41.764	1.00	19.42
ATOM	15039	N	VAL	2244	30.138	-29.519	42.673	1.00	20.17
ATOM	15040	CA	VAL	2244	19.710	-30.717	42.866	1.00	19.63
ATOM	15041	CB	VAL	2244	18.285	-30.340	42.813	1.00	20.85
ATOM	15042	CD1	VAL	2244	19.525	-29.959	42.575	1.00	19.91
ATOM	15043	CD2	VAL	2244	17.555	-31.801	43.688	1.00	21.80

ATOM	15044	C	VAL	2244	19.581	-31.558	41.538	1.00	20.01
ATOM	15045	C	VAL	2244	19.484	-32.785	41.611	1.00	19.12
ATOM	15046	N	ASN	2245	19.582	-70.907	40.379	1.00	17.97
ATOM	15047	CA	ASN	2245	19.471	-71.626	39.118	1.00	19.50
ATOM	15048	CB	ASN	2245	19.110	-70.653	37.993	1.00	17.46
ATOM	15049	CG	ASN	2245	17.709	-70.102	38.146	1.00	19.80
ATOM	15050	CD	ASN	2245	16.727	-70.850	38.058	1.00	16.48
ATOM	15051	ND2	ASN	2245	17.601	-78.796	38.386	1.00	18.40
ATOM	15052	C	ASN	2245	20.756	-32.367	38.787	1.00	19.89
ATOM	15053	O	ASN	2245	20.754	-13.401	38.114	1.00	20.19
ATOM	15054	H	ILE	2246	21.881	-51.835	39.254	1.00	20.52
ATOM	15055	CA	ILE	2246	23.172	-52.482	39.011	1.00	21.49
ATOM	15056	CB	ILE	2246	24.565	-31.581	39.411	1.00	20.68
ATOM	15057	CG2	ILE	2246	25.654	-32.401	39.365	1.00	21.13
ATOM	15058	CG1	ILE	2246	24.464	-30.365	38.472	1.00	20.16
ATOM	15059	CT1	ILE	2246	25.006	-30.675	37.085	1.00	18.96
ATOM	15060	O	ILE	2246	23.266	-13.759	39.847	1.00	22.01
ATOM	15061	O	ILE	2246	23.619	-14.821	39.333	1.00	21.51
ATOM	15062	N	PHE	2247	22.993	-13.647	41.136	1.00	22.01
ATOM	15063	CA	PHE	2247	23.013	-14.296	41.616	1.00	24.55
ATOM	15064	CB	PHE	2247	23.993	-14.381	43.498	1.00	21.60
ATOM	15065	CG	PHE	2247	23.907	-13.243	43.851	1.00	20.31
ATOM	15066	CD	PHE	2247	25.014	-13.326	43.512	1.00	21.80
ATOM	15067	CE	PHE	2247	23.449	-12.113	44.520	1.00	20.37
ATOM	15068	CE1	PHE	2247	26.139	-12.583	43.865	1.00	24.67
ATOM	15069	CE2	PHE	2247	24.310	-11.982	43.873	1.00	24.16
ATOM	15070	CZ	PHE	2247	25.667	-31.274	44.558	1.00	24.12
ATOM	15071	O	PHE	2247	21.913	-15.686	43.578	1.00	24.18
ATOM	15072	O	PHE	2247	22.041	-16.975	42.156	1.00	25.60
ATOM	15073	N	GLY	2248	20.818	-15.549	41.166	1.00	22.84
ATOM	15074	CA	GLY	2248	19.777	-16.233	40.893	1.00	23.98
ATOM	15075	O	GLY	2248	18.818	-16.384	42.107	1.00	25.53
ATOM	15076	O	GLY	2248	18.073	-17.362	42.218	1.00	25.77
ATOM	15077	N	GLY	2248	18.883	-15.405	43.062	1.00	26.23
ATOM	15078	CA	GLY	2248	18.081	-15.442	44.209	1.00	29.60
ATOM	15079	O	GLY	2248	18.844	-14.812	43.387	1.00	27.40
ATOM	15080	O	GLY	2248	19.984	-14.482	43.241	1.00	31.11
ATOM	15081	N	TYR	2250	18.277	-14.848	43.583	1.00	33.81
ATOM	15082	CA	TYR	2250	18.443	-14.330	43.738	1.00	36.96
ATOM	15083	CB	TYR	2250	17.419	-13.608	43.658	1.00	38.09
ATOM	15084	CG	TYR	2250	17.118	-12.453	43.945	1.00	40.93
ATOM	15085	CD	TYR	2250	15.446	-12.640	43.243	1.00	41.37
ATOM	15086	CE1	TYR	2250	15.313	-11.580	43.564	1.00	43.82
ATOM	15087	CE2	TYR	2250	17.694	-11.174	42.970	1.00	41.83
ATOM	15088	CE2	TYR	2250	17.286	-10.108	42.314	1.00	43.32
ATOM	15089	CZ	TYR	2250	15.302	-10.317	43.634	1.00	43.38
ATOM	15090	OH	TYR	2250	15.311	-10.364	43.971	1.00	45.48
ATOM	15091	O	TYR	2250	19.484	-15.477	43.518	1.00	37.22
ATOM	15092	O	TYR	2250	18.359	-16.090	43.362	1.00	38.27
ATOM	15093	N	LYS	2251	20.741	-15.755	43.204	1.00	37.64
ATOM	15094	CA	LYS	2251	21.481	-16.839	43.880	1.00	37.41
ATOM	15095	CB	LYS	2251	22.913	-17.776	43.712	1.00	37.65
ATOM	15096	CG	LYS	2251	20.454	-18.168	43.711	1.00	37.73
ATOM	15097	CD	LYS	2251	21.580	-18.742	43.448	1.00	37.64
ATOM	15098	CE	LYS	2251	20.619	-19.954	44.415	1.00	37.43
ATOM	15099	NE	LYS	2251	21.114	-19.317	43.119	1.00	38.97
ATOM	15100	O	LYS	2251	22.638	-18.367	43.639	1.00	37.37
ATOM	15101	O	LYS	2251	23.176	-18.121	43.368	1.00	36.96
ATOM	15102	N	VAL	2252	23.012	-17.018	50.796	1.00	37.82
ATOM	15103	CA	VAL	2252	24.106	-16.105	51.576	1.00	34.23
ATOM	15104	CB	VAL	2252	24.319	-17.621	52.717	1.00	34.53
ATOM	15105	CG1	VAL	2252	25.416	-17.137	53.651	1.00	35.17
ATOM	15106	CG2	VAL	2252	23.024	-16.781	53.477	1.00	34.83
ATOM	15107	O	VAL	2252	25.390	-16.497	50.799	1.00	39.59
ATOM	15108	O	VAL	2252	25.584	-17.240	49.798	1.00	39.94
ATOM	15109	N	GLN	2253	26.385	-15.574	51.144	1.00	40.19
ATOM	15110	CA	GLN	2253	27.526	-15.376	50.830	1.00	41.62
ATOM	15111	CB	GLN	2253	27.511	-14.658	49.743	1.00	42.00
ATOM	15112	CG	GLN	2253	28.192	-14.574	49.384	1.00	43.44
ATOM	15113	CD	GLN	2253	27.479	-14.425	47.349	1.00	42.81
ATOM	15114	CE	GLN	2253	27.275	-14.672	47.138	1.00	43.81
ATOM	15115	NE2	GLN	2253	28.316	-15.723	48.704	1.00	44.49
ATOM	15116	O	GLN	2253	28.397	-15.469	51.398	1.00	41.35
ATOM	15117	O	GLN	2253	28.527	-15.358	50.810	1.00	41.17
ATOM	15118	N	GLY	2254	29.895	-15.177	50.863	1.00	41.70
ATOM	15119	CA	GLY	2254	31.889	-15.283	51.309	1.00	43.67
ATOM	15120	O	GLY	2254	31.431	-15.299	52.691	1.00	40.95

ATOM	15121	O	GLY	2254	32.501	-37.466	52.581	1.00	47.08
ATOM	15122	N	AFG	2255	30.517	-38.140	51.84	1.00	48.47
ATOM	15123	CA	AFG	2255	30.742	-39.552	52.165	1.00	49.93
ATOM	15124	CB	AFG	2255	29.517	-40.378	51.696	1.00	50.98
ATOM	15125	CG	AFG	2255	28.234	-41.026	52.423	1.00	51.85
ATOM	15126	CD	AFG	2255	28.282	-41.425	53.887	1.00	52.47
ATOM	15127	NE	AFG	2255	27.062	-41.148	54.596	1.00	53.65
ATOM	15128	CE	AFG	2255	25.864	-41.724	54.322	1.00	52.93
ATOM	15129	NE1	AFG	2255	25.708	-41.618	53.343	1.00	52.83
ATOM	15130	NE2	AFG	2255	24.786	-40.409	55.027	1.00	53.44
ATOM	15131	C	AFG	2255	31.996	-40.058	51.342	1.00	50.92
ATOM	15132	O	AFG	2255	31.965	-40.092	50.111	1.00	50.96
ATOM	15133	N	GLY	2256	34.010	-40.444	52.070	1.00	51.41
ATOM	15134	CA	GLY	2256	34.211	-40.928	51.413	1.00	52.44
ATOM	15135	C	GLY	2256	35.438	-41.069	51.677	1.00	52.97
ATOM	15136	O	GLY	2256	33.313	-39.854	51.819	1.00	52.11
ATOM	15137	N	ASP	2257	36.549	-41.694	51.732	1.00	53.48
ATOM	15138	CA	ASP	2257	35.188	-41.969	51.982	1.00	51.19
ATOM	15139	CB	ASP	2257	34.003	-41.934	52.009	1.00	55.66
ATOM	15140	CG	ASP	2257	32.981	-41.490	53.165	1.00	56.10
ATOM	15141	OD1	ASP	2257	34.717	-41.553	54.237	1.00	56.83
ATOM	15142	OD2	ASP	2257	34.947	-41.172	52.797	1.00	58.01
ATOM	15143	C	ASP	2257	38.044	-41.893	50.925	1.00	57.11
ATOM	15144	O	ASP	2257	38.733	-41.741	51.233	1.00	57.69
ATOM	15145	N	GLU	2258	37.989	-42.273	49.646	1.00	51.48
ATOM	15146	CA	GLU	2258	38.215	-42.315	48.576	1.00	51.39
ATOM	15147	CB	GLU	2258	37.215	-42.302	47.234	1.00	51.16
ATOM	15148	CG	GLU	2258	36.381	-42.169	48.003	1.00	51.82
ATOM	15149	CD	GLU	2258	38.603	-42.959	44.732	1.00	57.62
ATOM	15150	OE1	GLU	2258	38.168	-42.809	44.691	1.00	58.83
ATOM	15151	OE2	GLU	2258	37.773	-42.913	43.837	1.00	59.41
ATOM	15152	C	GLU	2258	37.010	-43.188	48.616	1.00	49.56
ATOM	15153	O	GLU	2258	37.533	-42.010	48.557	1.00	43.14
ATOM	15154	N	ALA	2259	36.963	-41.517	48.721	1.00	47.48
ATOM	15155	CA	ALA	2259	34.807	-41.521	48.778	1.00	47.65
ATOM	15156	CB	ALA	2259	38.110	-41.181	48.745	1.00	47.11
ATOM	15157	C	ALA	2259	37.003	-41.688	50.046	1.00	47.73
ATOM	15158	O	ALA	2259	34.742	-41.491	50.047	1.00	47.37
ATOM	15159	N	GLY	2260	37.466	-42.330	51.121	1.00	47.56
ATOM	15160	CA	GLY	2260	38.644	-42.652	52.330	1.00	47.13
ATOM	15161	C	GLY	2260	38.734	-42.645	52.338	1.00	46.59
ATOM	15162	O	GLY	2260	36.680	-41.514	52.837	1.00	49.79
ATOM	15163	N	ASP	2261	37.953	-42.056	51.744	1.00	48.13
ATOM	15164	CA	ASP	2261	37.070	-42.182	51.647	1.00	58.24
ATOM	15165	CB	ASP	2261	42.021	-42.959	52.141	1.00	59.35
ATOM	15166	CG	ASP	2261	40.635	-42.142	52.005	1.00	40.38
ATOM	15167	OD1	ASP	2261	40.613	-42.950	53.237	1.00	59.90
ATOM	15168	OD2	ASP	2261	40.133	-42.214	51.477	1.00	47.70
ATOM	15169	C	ASP	2261	34.735	-43.002	50.709	1.00	47.18
ATOM	15170	O	ASP	2261	36.203	-42.915	50.835	1.00	47.70
ATOM	15171	N	GLN	2262	37.481	-43.209	49.645	1.00	47.51
ATOM	15172	CA	GLN	2262	37.533	-42.256	48.778	1.00	47.77
ATOM	15173	CB	GLN	2262	36.713	-42.834	47.677	1.00	47.41
ATOM	15174	CG	GLN	2262	36.391	-41.864	46.504	1.00	47.00
ATOM	15175	CD	GLN	2262	37.568	-41.204	45.841	1.00	48.05
ATOM	15176	OE1	GLN	2262	37.433	-42.019	45.335	1.00	47.24
ATOM	15177	NE2	GLN	2262	37.665	-41.956	45.781	1.00	47.19
ATOM	15178	C	GLN	2262	36.833	-41.112	49.435	1.00	47.47
ATOM	15179	O	GLN	2262	37.113	-41.399	49.177	1.00	47.28
ATOM	15180	N	LEU	2263	37.843	-41.483	50.234	1.00	47.83
ATOM	15181	CA	LEU	2263	37.135	-41.408	51.029	1.00	47.73
ATOM	15182	CB	LEU	2263	37.993	-41.103	51.706	1.00	47.63
ATOM	15183	CG	LEU	2263	37.813	-41.775	50.935	1.00	47.11
ATOM	15184	CD	LEU	2263	37.733	-42.282	51.935	1.00	47.23
ATOM	15185	CE	LEU	2263	37.233	-41.632	50.933	1.00	47.73
ATOM	15186	C	LEU	2263	37.993	-41.711	51.936	1.00	47.63
ATOM	15187	O	LEU	2263	37.874	-41.434	52.110	1.00	47.26
ATOM	15188	N	LEU	2264	38.683	-40.438	52.673	1.00	47.91
ATOM	15189	CA	LEU	2264	37.789	-40.737	53.613	1.00	47.33
ATOM	15190	CB	LEU	2264	37.764	-40.833	54.253	1.00	47.47
ATOM	15191	CG	LEU	2264	37.783	-40.433	55.633	1.00	47.11
ATOM	15192	CD	LEU	2264	38.170	-41.648	56.068	1.00	47.67
ATOM	15193	CE	LEU	2264	37.669	-42.188	55.613	1.00	47.33
ATOM	15194	C	LEU	2264	38.831	-42.734	50.855	1.00	46.63
ATOM	15195	O	LEU	2264	38.761	-42.554	53.275	1.00	46.93
ATOM	15196	N	SER	2265	38.136	-42.117	51.733	1.00	45.34
ATOM	15197	CA	SER	2265	40.133	-42.232	51.413	1.00	45.13

ATOM	15198	CB	SER	2265	40.546	-29.036	49.686	1.00	25.94
ATOM	15199	OG	SEF	2265	41.162	-28.193	48.895	1.00	26.74
ATOM	15200	C	SEF	2265	39.257	-27.067	50.475	1.00	24.21
ATOM	15201	O	SEF	2265	39.740	-25.945	50.524	1.00	21.95
ATOM	15202	N	ASF	2266	37.968	-27.796	50.014	1.00	18.62
ATOM	15203	CA	ASF	2266	27.124	-26.115	49.594	1.00	14.68
ATOM	15204	CB	ASF	2266	35.865	-26.576	49.045	1.00	25.99
ATOM	15205	CG	ASF	2266	35.959	-27.401	47.671	1.00	29.42
ATOM	15206	OD1	ASF	2266	36.555	-26.734	46.775	1.00	31.95
ATOM	15207	OD2	ASF	2266	35.498	-28.545	47.478	1.00	34.49
ATOM	15208	C	ASF	2266	36.825	-25.231	50.724	1.00	22.16
ATOM	15209	O	ASF	2266	36.865	-24.613	50.529	1.00	22.29
ATOM	15210	N	ALA	2267	26.531	-25.767	51.902	1.00	22.20
ATOM	15211	CA	ALA	2267	36.255	-24.944	50.059	1.00	20.53
ATOM	15212	CB	ALA	2267	35.952	-25.866	54.230	1.00	19.05
ATOM	15213	C	ALA	2267	37.419	-24.031	52.354	1.00	20.70
ATOM	15214	O	ALA	2267	37.247	-22.817	52.546	1.00	18.09
ATOM	15215	N	LEU	2268	24.625	-24.554	51.158	1.00	19.57
ATOM	15216	CA	LEU	2268	39.812	-23.751	53.629	1.00	22.22
ATOM	15217	CB	LEU	2268	41.054	-24.661	51.722	1.00	22.35
ATOM	15218	CG	LEU	2268	41.230	-25.433	54.867	1.00	21.44
ATOM	15219	CD1	LEU	2268	42.400	-26.488	54.350	1.00	24.11
ATOM	15220	CD2	LEU	2268	41.438	-24.518	56.173	1.00	21.26
ATOM	15221	C	LEU	2268	42.016	-22.756	52.144	1.00	21.76
ATOM	15222	O	LEU	2268	40.397	-21.660	52.337	1.00	23.46
ATOM	15223	N	ALA	2269	39.775	-23.113	52.195	1.00	21.45
ATOM	15224	CA	ALA	2269	39.944	-22.554	53.154	1.00	20.17
ATOM	15225	CB	ALA	2269	39.709	-22.968	48.163	1.00	22.22
ATOM	15226	C	ALA	2269	38.667	-21.555	50.283	1.00	21.51
ATOM	15227	O	ALA	2269	39.199	-19.661	50.661	1.00	21.02
ATOM	15228	N	LEU	2270	27.743	-21.255	50.860	1.00	19.82
ATOM	15229	CA	LEU	2270	26.765	-20.225	50.773	1.00	21.19
ATOM	15230	CB	LEU	2270	36.277	-20.184	52.628	1.00	19.10
ATOM	15231	CG	LEU	2270	34.727	-21.637	49.562	1.00	20.95
ATOM	15232	CD1	LEU	2270	32.488	-23.758	50.860	1.00	20.19
ATOM	15233	CD2	LEU	2270	34.599	-22.753	48.682	1.00	20.41
ATOM	15234	C	LEU	2270	32.162	-19.169	52.852	1.00	20.84
ATOM	15235	O	LEU	2270	32.737	-18.861	52.861	1.00	21.39
ATOM	15236	N	GLU	2271	32.644	-19.864	52.862	1.00	22.99
ATOM	15237	CA	GLU	2271	38.072	-19.652	54.112	1.00	22.49
ATOM	15238	CB	GLU	2271	38.484	-19.569	53.357	1.00	23.48
ATOM	15239	CG	GLU	2271	39.150	-18.758	56.432	1.00	24.86
ATOM	15240	CD	GLU	2271	39.540	-20.666	57.065	1.00	23.12
ATOM	15241	OE1	GLU	2271	40.279	-21.559	57.350	1.00	26.64
ATOM	15242	OE2	GLU	2271	39.143	-19.861	58.710	1.00	25.55
ATOM	15243	C	GLU	2271	39.241	-18.162	53.704	1.00	22.11
ATOM	15244	O	GLU	2271	39.270	-16.933	54.418	1.00	22.92
ATOM	15245	N	ALA	2272	40.205	-18.753	52.102	1.00	23.39
ATOM	15246	CA	ALA	2272	41.370	-17.968	52.558	1.00	23.06
ATOM	15247	CB	ALA	2272	42.489	-18.868	51.446	1.00	23.30
ATOM	15248	C	ALA	2272	40.978	-16.895	51.557	1.00	23.51
ATOM	15249	O	ALA	2272	41.648	-15.876	51.335	1.00	23.19
ATOM	15250	N	ALA	2273	39.893	-17.861	50.831	1.00	23.35
ATOM	15251	CA	ALA	2273	39.413	-16.135	49.406	1.00	22.95
ATOM	15252	CB	ALA	2273	38.442	-16.434	43.464	1.00	21.14
ATOM	15253	C	ALA	2273	38.734	-14.635	53.131	1.00	21.79
ATOM	15254	O	ALA	2273	38.515	-13.408	43.339	1.00	21.30
ATOM	15255	N	GLY	2274	38.490	-15.166	51.558	1.00	21.57
ATOM	15256	CA	GLY	2274	37.747	-13.661	51.415	1.00	21.65
ATOM	15257	C	GLY	2274	37.699	-14.762	53.179	1.00	21.17
ATOM	15258	O	GLY	2274	37.618	-13.632	53.335	1.00	21.65
ATOM	15259	N	ALA	2275	37.885	-15.175	51.336	1.00	22.32
ATOM	15260	CA	ALA	2275	41.596	-15.331	53.139	1.00	20.83
ATOM	15261	CB	ALA	2275	41.218	-17.257	53.137	1.00	22.14
ATOM	15262	C	ALA	2275	41.073	-15.066	53.319	1.00	21.17
ATOM	15263	O	ALA	2275	39.516	-14.184	53.834	1.00	20.62
ATOM	15264	N	GLN	2276	37.684	-15.139	55.804	1.00	21.21
ATOM	15265	CA	GLN	2276	37.677	-14.850	57.151	1.00	21.02
ATOM	15266	CB	GLN	2276	37.293	-13.402	57.378	1.00	22.86
ATOM	15267	CG	GLN	2276	34.292	-12.356	56.843	1.00	24.47
ATOM	15268	C	GLN	2276	37.673	-10.854	57.566	1.00	23.97
ATOM	15269	OE1	GLN	2276	34.022	-10.441	58.212	1.00	29.73
ATOM	15270	NE	GLN	2276	33.416	-10.252	56.255	1.00	27.89
ATOM	15271	O	GLN	2276	32.551	-15.812	57.752	1.00	20.18
ATOM	15272	N	GLN	2276	32.666	-15.819	58.978	1.00	18.92
ATOM	15273	N	LEU	2277	32.548	-15.635	56.761	1.00	18.68
ATOM	15274	CA	LEU	2277	32.555	-15.635	53.483	1.00	19.00

ATCM	15275	CB	LEU	2277	29.735	-17.009	57.677	1.00	21.48
ATCM	15276	CG	LEU	2277	29.240	-16.728	59.113	1.00	23.83
ATCM	15277	CD1	LEU	2277	27.993	-15.939	59.698	1.00	24.53
ATCM	15278	CD2	LEU	2277	29.185	-18.040	59.848	1.00	26.07
ATCM	15279	C	LEU	2277	30.946	-18.787	56.485	1.00	19.50
ATCM	15280	C	LEU	2277	31.157	-18.591	55.291	1.00	19.06
ATCM	15281	N	LEU	2278	30.689	-18.978	56.978	1.00	19.37
ATCM	15282	CA	LEU	2278	30.511	-11.141	56.114	1.00	20.54
ATCM	15283	CB	LEU	2278	31.745	-11.980	56.380	1.00	21.74
ATCM	15284	CG	LEU	2278	31.702	-13.321	55.329	1.00	23.36
ATCM	15285	CD1	LEU	2278	31.185	-23.110	53.910	1.00	21.69
ATCM	15286	CD2	LEU	2278	23.070	-23.977	55.307	1.00	23.09
ATCM	15287	C	LEU	2279	29.367	-12.036	56.160	1.00	20.51
ATCM	15288	C	LEU	2278	29.272	-12.346	57.746	1.00	19.68
ATCM	15289	N	VAL	2278	28.541	-22.451	55.607	1.00	19.52
ATCM	15290	CA	VAL	2278	27.441	-12.340	55.909	1.00	20.12
ATCM	15291	CB	VAL	2278	26.009	-12.829	55.195	1.00	19.59
ATCM	15292	CG1	VAL	2278	25.047	-11.909	55.348	1.00	21.46
ATCM	15293	CG2	VAL	2278	25.509	-11.015	56.063	1.00	17.21
ATCM	15294	C	VAL	2278	25.777	-11.431	55.154	1.00	19.77
ATCM	15295	C	VAL	2278	25.147	-11.878	54.402	1.00	20.23
ATCM	15296	N	LEU	2280	26.511	-11.744	56.191	1.00	18.40
ATCM	15297	CA	LEU	2280	26.223	-11.133	55.787	1.00	19.76
ATCM	15298	CB	LEU	2280	28.716	-11.847	56.717	1.00	21.85
ATCM	15299	CG	LEU	2280	30.177	-11.418	56.656	1.00	24.85
ATCM	15300	CD1	LEU	2280	30.958	-11.141	57.741	1.00	25.43
ATCM	15301	CD2	LEU	2280	30.741	-11.745	55.278	1.00	25.21
ATCM	15302	C	LEU	2280	30.775	-11.311	55.865	1.00	19.77
ATCM	15303	C	LEU	2280	28.774	-11.847	56.967	1.00	20.13
ATCM	15304	N	GLU	2281	25.908	-11.964	54.781	1.00	20.23
ATCM	15305	CA	GLU	2281	24.615	-11.021	54.747	1.00	22.19
ATCM	15306	CB	GLU	2281	22.719	-11.828	53.717	1.00	24.19
ATCM	15307	CG	GLU	2281	22.411	-11.021	52.416	1.00	25.16
ATCM	15308	CD	GLU	2281	21.456	-11.177	52.187	1.00	28.07
ATCM	15309	DE1	GLU	2281	21.914	-11.108	52.965	1.00	19.48
ATCM	15310	DE2	GLU	2281	20.217	-11.486	51.551	1.00	30.09
ATCM	15311	C	GLU	2281	24.709	-11.111	54.447	1.00	23.66
ATCM	15312	C	GLU	2281	25.362	-11.928	52.774	1.00	24.09
ATCM	15313	N	CYS	2282	24.030	-11.326	51.271	1.00	24.83
ATCM	15314	CA	CYS	2282	24.007	-11.264	51.119	1.00	26.77
ATCM	15315	CB	CYS	2282	22.948	-11.136	54.648	1.00	27.78
ATCM	15316	CG	CYS	2282	21.317	-11.174	54.453	1.00	27.23
ATCM	15317	C	CYS	2282	25.334	-11.319	54.192	1.00	29.09
ATCM	15318	C	CYS	2282	25.623	-11.800	52.633	1.00	28.12
ATCM	15319	N	VAL	2283	26.135	-11.459	51.816	1.00	29.47
ATCM	15320	CA	VAL	2283	27.511	-11.425	51.701	1.00	32.15
ATCM	15321	CB	VAL	2283	28.173	-11.892	51.197	1.00	32.89
ATCM	15322	CG1	VAL	2283	28.431	-11.988	50.812	1.00	34.08
ATCM	15323	CG2	VAL	2283	29.967	-11.473	51.471	1.00	36.16
ATCM	15324	C	VAL	2283	27.785	-11.866	50.446	1.00	31.72
ATCM	15325	C	VAL	2283	27.325	-11.429	50.433	1.00	33.06
ATCM	15326	N	PFO	2284	26.319	-11.386	50.773	1.00	32.37
ATCM	15327	CD	PFO	2284	29.111	-11.704	50.414	1.00	31.82
ATCM	15328	CA	PFO	2284	28.787	-11.318	50.470	1.00	31.61
ATCM	15329	CB	PFO	2284	24.763	-11.866	52.433	1.00	31.74
ATCM	15330	CG	PFO	2284	30.493	-11.147	50.141	1.00	34.59
ATCM	15331	C	PFO	2284	23.167	-11.035	50.120	1.00	31.47
ATCM	15332	C	PFO	2284	30.139	-11.153	50.921	1.00	30.70
ATCM	15333	N	VAL	2285	28.465	-11.263	51.322	1.00	28.63
ATCM	15334	CA	VAL	2285	19.316	-11.561	51.514	1.00	33.64
ATCM	15335	CB	VAL	2285	28.785	-11.243	51.793	1.00	34.98
ATCM	15336	CG1	VAL	2285	29.136	-11.467	51.297	1.00	31.17
ATCM	15337	CG2	VAL	2285	27.966	-11.469	51.665	1.00	31.11
ATCM	15338	C	VAL	2285	19.435	-11.506	51.383	1.00	33.35
ATCM	15339	C	VAL	2285	31.467	-11.488	51.970	1.00	32.87
ATCM	15340	N	GLU	2286	31.439	-11.696	51.250	1.00	31.14
ATCM	15341	CA	GLU	2286	32.939	-11.702	51.225	1.00	31.89
ATCM	15342	CB	GLU	2286	33.493	-11.045	50.645	1.00	38.87
ATCM	15343	CG	GLU	2286	32.552	-11.236	51.011	1.00	34.09
ATCM	15344	CD	GLU	2286	31.332	-11.277	52.516	1.00	35.15
ATCM	15345	DE1	GLU	2286	31.162	-11.136	53.317	1.00	34.44
ATCM	15346	DE2	GLU	2286	31.932	-11.455	51.864	1.00	36.85
ATCM	15347	C	GLU	2286	33.370	-11.579	50.416	1.00	39.22
ATCM	15348	C	GLU	2286	34.151	-11.967	50.898	1.00	34.01
ATCM	15349	N	LEU	2287	33.119	-11.434	50.176	1.00	34.29
ATCM	15350	CA	LEU	2287	32.721	-11.405	50.184	1.00	34.35
ATCM	15351	CB	LEU	2287	32.775	-11.136	50.471	1.00	34.11

ATOM	15352	CG	LEU	2287	33.858	-34.344	55.677	1.00	36.84
ATOM	15353	CD1	LEU	2287	33.022	-34.555	54.424	1.00	36.74
ATOM	15354	CD2	LEU	2287	24.479	-32.965	55.682	1.00	38.47
ATOM	15355	C	LEU	2287	23.363	-33.021	58.869	1.00	32.89
ATOM	15356	O	LEU	2287	34.732	-32.148	58.842	1.00	31.87
ATOM	15357	N	ALA	2288	32.158	-32.826	59.401	1.00	32.19
ATOM	15358	CA	ALA	2288	31.779	-31.547	59.999	1.00	32.97
ATOM	15359	CB	ALA	2288	30.367	-31.630	60.571	1.00	31.59
ATOM	15360	C	ALA	2288	32.762	-31.183	61.100	1.00	31.77
ATOM	15361	O	ALA	2288	33.092	-29.990	61.272	1.00	28.78
ATOM	15362	N	LYS	2289	32.219	-32.188	61.842	1.00	32.20
ATOM	15363	CA	LYS	2289	34.171	-31.966	62.927	1.00	32.72
ATOM	15364	CB	LYS	2289	34.452	-33.183	63.632	1.00	36.63
ATOM	15365	CG	LYS	2289	32.229	-32.940	64.135	1.00	41.13
ATOM	15366	CD	LYS	2289	33.491	-35.400	64.616	1.00	42.87
ATOM	15367	CE	LYS	2289	31.259	-36.040	65.341	1.00	43.20
ATOM	15368	NZ	LYS	2289	31.369	-37.516	65.886	1.00	41.59
ATOM	15369	C	LYS	2289	31.476	-31.400	62.884	1.00	37.12
ATOM	15370	O	LYS	2289	31.966	-30.733	62.881	1.00	31.46
ATOM	15371	N	ARG	2290	34.034	-32.039	62.885	1.00	35.84
ATOM	15372	CA	ARG	2290	32.388	-31.663	60.572	1.00	34.39
ATOM	15373	CB	ARG	2290	31.674	-32.189	59.663	1.00	36.92
ATOM	15374	CG	ARG	2290	32.344	-33.381	60.184	1.00	38.79
ATOM	15375	CD	ARG	2290	31.819	-34.007	58.888	1.00	31.02
ATOM	15376	NE	ARG	2290	32.866	-35.247	58.783	1.00	44.41
ATOM	15377	CZ	ARG	2290	38.110	-35.140	61.881	1.00	45.62
ATOM	15378	NH1	ARG	2290	39.319	-35.731	66.130	1.00	45.39
ATOM	15379	NH2	ARG	2290	37.149	-36.400	66.135	1.00	46.26
ATOM	15380	C	ARG	2290	31.136	-30.234	60.139	1.00	31.61
ATOM	15381	O	ARG	2290	38.331	-39.388	60.137	1.00	31.99
ATOM	15382	N	THR	2291	36.189	-39.966	59.481	1.00	31.56
ATOM	15383	CA	THR	2291	35.996	-38.609	58.888	1.00	30.31
ATOM	15384	CB	THR	2291	34.739	-38.150	57.881	1.00	31.02
ATOM	15385	CG2	THR	2291	34.514	-37.130	57.110	1.00	30.84
ATOM	15386	CG1	THR	2291	34.904	-39.589	56.888	1.00	31.84
ATOM	15387	CH1	THR	2291	33.694	-39.738	55.888	1.00	31.14
ATOM	15388	C	THR	2291	35.860	-37.568	59.881	1.00	30.40
ATOM	15389	O	THR	2291	36.503	-36.507	59.881	1.00	30.62
ATOM	15390	N	THR	2292	35.035	-37.847	60.888	1.00	30.80
ATOM	15391	CA	THR	2292	34.819	-36.904	62.131	1.00	30.75
ATOM	15392	CB	THR	2292	33.518	-37.406	63.810	1.00	30.05
ATOM	15393	CG1	THR	2292	32.449	-37.955	62.888	1.00	30.31
ATOM	15394	CG2	THR	2292	33.597	-36.413	64.134	1.00	31.19
ATOM	15395	C	THR	2292	36.086	-36.833	62.880	1.00	29.42
ATOM	15396	O	THR	2292	36.319	-35.801	63.888	1.00	30.54
ATOM	15397	N	GLU	2293	36.900	-37.347	63.881	1.00	30.75
ATOM	15398	CA	GLU	2293	38.138	-37.339	63.881	1.00	31.00
ATOM	15399	CB	GLU	2293	38.578	-38.334	64.847	1.00	35.28
ATOM	15400	CG	GLU	2293	37.547	-39.330	65.888	1.00	33.73
ATOM	15401	CD	GLU	2293	37.976	-40.338	65.888	1.00	33.82
ATOM	15402	CE1	GLU	2293	38.390	-41.343	64.881	1.00	34.44
ATOM	15403	CE2	GLU	2293	37.889	-41.350	65.888	1.00	33.17
ATOM	15404	C	GLU	2293	36.250	-36.429	62.888	1.00	31.40
ATOM	15405	O	GLU	2293	40.175	-26.006	63.887	1.00	31.84
ATOM	15406	N	ALA	2294	36.159	-27.132	61.649	1.00	30.60
ATOM	15407	CA	ALA	2294	33.180	-28.331	60.134	1.00	30.10
ATOM	15408	CB	ALA	2294	35.190	-27.334	59.136	1.00	30.45
ATOM	15409	C	ALA	2294	33.015	-25.339	60.417	1.00	30.58
ATOM	15410	O	ALA	2294	33.996	-24.104	60.159	1.00	27.98
ATOM	15411	N	LEU	2295	36.776	-24.620	60.131	1.00	28.57
ATOM	15412	CA	LEU	2295	33.501	-23.315	60.131	1.00	28.11
ATOM	15413	CB	LEU	2295	36.178	-23.332	59.313	1.00	28.01
ATOM	15414	CG	LEU	2295	37.093	-23.334	57.887	1.00	28.83
ATOM	15415	CD	LEU	2295	37.761	-23.161	57.313	1.00	28.37
ATOM	15416	CE	LEU	2295	38.242	-23.119	57.137	1.00	28.59
ATOM	15417	C	LEU	2295	38.449	-23.330	61.333	1.00	24.44
ATOM	15418	O	LEU	2295	37.961	-22.642	62.383	1.00	25.13
ATOM	15419	N	ALA	2296	38.953	-21.034	61.148	1.00	25.89
ATOM	15420	CA	ALA	2296	38.944	-20.102	62.212	1.00	25.79
ATOM	15421	CB	ALA	2296	40.053	-19.036	61.845	1.00	25.57
ATOM	15422	C	ALA	2296	37.541	-19.402	62.239	1.00	24.75
ATOM	15423	O	ALA	2296	37.079	-19.000	63.214	1.00	25.57
ATOM	15424	N	ILE	2297	37.015	-19.253	61.613	1.00	25.45
ATOM	15425	CA	ILE	2297	35.715	-18.601	60.877	1.00	25.37
ATOM	15426	CB	ILE	2297	35.407	-18.223	59.419	1.00	25.81
ATOM	15427	CG	ILE	2297	36.461	-17.190	58.958	1.00	25.31
ATOM	15428	CD	ILE	2297	36.413	-16.481	58.548	1.00	25.13

ATOM	15429	CD1	ILE	2297	34.938	-19.252	57.130	1.00	23.01
ATOM	15430	C	ILE	2297	34.621	-19.553	61.354	1.00	21.65
ATOM	15431	O	ILE	2297	34.782	-20.768	61.288	1.00	22.46
ATOM	15432	N	PRO	2298	33.499	-19.009	61.836	1.00	22.66
ATOM	15433	CD	PRO	2298	33.188	-17.587	62.064	1.00	22.11
ATOM	15434	CA	PRO	2298	32.417	-19.873	62.211	1.00	20.85
ATOM	15435	CB	PRO	2298	31.451	-18.884	62.547	1.00	21.15
ATOM	15436	CG	PRO	2298	31.698	-17.610	62.708	1.00	24.45
ATOM	15437	C	PRO	2298	31.783	-20.728	61.713	1.00	22.19
ATOM	15438	O	PRO	2298	31.678	-20.304	60.662	1.00	20.87
ATOM	15439	N	VAL	2299	31.416	-21.945	61.585	1.00	20.48
ATOM	15440	CA	VAL	2299	30.802	-22.899	60.669	1.00	21.54
ATOM	15441	CB	VAL	2299	31.628	-24.308	60.616	1.00	21.85
ATOM	15442	CG1	VAL	2299	30.861	-25.777	59.704	1.00	19.69
ATOM	15443	CG2	VAL	2299	33.055	-23.901	60.144	1.00	21.05
ATOM	15444	C	VAL	2299	29.385	-23.134	62.123	1.00	22.17
ATOM	15445	O	VAL	2299	29.189	-23.342	62.182	1.00	22.34
ATOM	15446	N	LEU	2300	28.402	-22.337	60.221	1.00	19.12
ATOM	15447	CA	LEU	2300	27.661	-23.639	60.641	1.00	18.65
ATOM	15448	CB	LEU	2300	26.677	-21.777	60.142	1.00	20.40
ATOM	15449	CG	LEU	2300	24.673	-21.116	60.191	1.00	19.56
ATOM	15450	CD1	LEU	2300	26.389	-20.731	60.023	1.00	21.28
ATOM	15451	CD2	LEU	2300	25.806	-19.434	60.534	1.00	22.74
ATOM	15452	C	LEU	2300	26.566	-24.777	59.866	1.00	18.35
ATOM	15453	O	LEU	2300	26.117	-24.131	58.751	1.00	18.55
ATOM	15454	N	GLY	2301	26.467	-25.833	60.141	1.00	16.44
ATOM	15455	CA	GLY	2301	25.381	-26.764	60.183	1.00	17.23
ATOM	15456	C	GLY	2301	24.063	-26.611	60.070	1.00	20.16
ATOM	15457	O	GLY	2301	23.333	-26.113	60.800	1.00	17.34
ATOM	15458	N	LEU	2302	23.717	-27.663	59.134	1.00	21.06
ATOM	15459	CA	LEU	2302	22.343	-28.113	59.889	1.00	22.09
ATOM	15460	CB	LEU	2302	21.671	-27.163	57.871	1.00	20.09
ATOM	15461	CG2	LEU	2302	22.360	-26.896	58.653	1.00	22.12
ATOM	15462	CG1	LEU	2302	20.395	-27.790	57.452	1.00	21.76
ATOM	15463	CD1	LEU	2302	19.371	-27.337	52.777	1.00	31.87
ATOM	15464	C	LEU	2302	22.313	-29.117	57.158	1.00	23.26
ATOM	15465	O	LEU	2302	22.347	-29.730	57.117	1.00	23.36
ATOM	15466	N	GLY	2303	22.173	-30.133	58.100	1.00	24.69
ATOM	15467	CA	GLY	2303	22.334	-31.387	57.191	1.00	24.67
ATOM	15468	C	GLY	2303	23.115	-32.198	58.162	1.00	26.35
ATOM	15469	O	GLY	2303	24.143	-33.319	57.152	1.00	35.42
ATOM	15470	N	ALA	2304	24.372	-31.830	59.131	1.00	26.01
ATOM	15471	CA	ALA	2304	25.895	-31.923	59.310	1.00	26.33
ATOM	15472	CB	ALA	2304	26.721	-30.726	59.447	1.00	26.51
ATOM	15473	C	ALA	2304	26.147	-32.391	61.357	1.00	27.49
ATOM	15474	O	ALA	2304	27.333	-32.321	61.121	1.00	27.78
ATOM	15475	N	GLY	2305	25.117	-32.370	62.184	1.00	29.32
ATOM	15476	CA	GLY	2305	25.465	-32.796	63.580	1.00	29.51
ATOM	15477	C	GLY	2305	25.564	-31.764	64.453	1.00	29.45
ATOM	15478	O	GLY	2305	25.335	-30.347	63.393	1.00	29.59
ATOM	15479	N	ASN	2306	25.934	-31.766	65.725	1.00	27.36
ATOM	15480	CA	ASN	2306	26.362	-30.363	66.672	1.00	27.30
ATOM	15481	CB	ASN	2306	25.404	-32.129	68.914	1.00	26.17
ATOM	15482	CG	ASN	2306	26.124	-32.165	68.750	1.00	24.23
ATOM	15483	CD1	ASN	2306	25.331	-32.463	69.402	1.00	30.11
ATOM	15484	CD2	ASN	2306	27.336	-31.791	68.393	1.00	31.17
ATOM	15485	C	ASN	2306	27.138	-30.340	67.415	1.00	27.30
ATOM	15486	O	ASN	2306	27.831	-30.553	67.496	1.00	26.84
ATOM	15487	N	VAL	2307	28.336	-30.632	66.314	1.00	27.99
ATOM	15488	CA	VAL	2307	28.332	-30.302	66.150	1.00	27.99
ATOM	15489	CB	VAL	2307	28.638	-31.372	65.191	1.00	28.66
ATOM	15490	CG1	VAL	2307	28.337	-31.134	65.343	1.00	32.47
ATOM	15491	CG2	VAL	2307	26.372	-31.762	65.947	1.00	29.89
ATOM	15492	C	VAL	2307	30.168	-28.350	65.533	1.00	26.89
ATOM	15493	O	VAL	2307	31.257	-28.114	65.751	1.00	28.23
ATOM	15494	N	THR	2308	28.331	-30.192	64.753	1.00	29.33
ATOM	15495	CA	THR	2308	28.165	-27.113	64.116	1.00	24.44
ATOM	15496	CB	THR	2308	28.483	-26.390	62.930	1.00	24.99
ATOM	15497	CG1	THR	2308	27.134	-27.138	63.384	1.00	23.48
ATOM	15498	CG2	THR	2308	28.758	-27.397	61.815	1.00	23.56
ATOM	15499	C	THR	2308	28.393	-25.796	65.137	1.00	23.65
ATOM	15500	O	THR	2308	28.173	-25.169	64.167	1.00	25.02
ATOM	15501	N	ASP	2309	29.071	-24.834	64.834	1.00	23.35
ATOM	15502	CA	ASP	2309	29.785	-23.684	65.726	1.00	22.71
ATOM	15503	CB	ASP	2309	31.642	-22.546	65.183	1.00	23.91
ATOM	15504	CG	ASP	2309	31.298	-22.240	65.042	1.00	23.82
ATOM	15505	C	ASP	2309	31.232	-21.288	64.979	1.00	21.88

ATOM	15506	OD2	ASP	2309	32.609	-22.900	63.904	1.00	22.96
ATOM	15507	C	ASP	2309	28.551	-23.206	65.887	1.00	22.86
ATOM	15508	O	ASP	2309	27.937	-22.743	66.900	1.00	23.77
ATOM	15509	N	GLY	2310	27.592	-23.155	64.795	1.00	23.67
ATOM	15510	CA	GLY	2310	26.209	-22.814	64.817	1.00	21.62
ATOM	15511	CL	GLY	2310	25.283	-23.769	64.119	1.00	20.15
ATOM	15512	O	GLY	2310	25.531	-24.742	63.533	1.00	19.40
ATOM	15513	N	GLN	2311	23.986	-23.485	64.119	1.00	21.71
ATOM	15514	CA	GLN	2311	22.940	-24.337	63.533	1.00	19.77
ATOM	15515	CB	GLN	2311	22.204	-25.118	64.539	1.00	20.52
ATOM	15516	CG	GLN	2311	23.001	-26.179	63.819	1.00	21.52
ATOM	15517	CD	GLN	2311	23.541	-27.241	64.539	1.00	21.75
ATOM	15518	OE1	GLN	2311	22.848	-27.687	63.474	1.00	21.80
ATOM	15519	NE2	GLN	2311	24.780	-27.686	64.623	1.00	21.19
ATOM	15520	C	GLN	2311	22.009	-23.445	61.756	1.00	20.67
ATOM	15521	O	GLN	2311	21.772	-22.318	63.017	1.00	17.41
ATOM	15522	N	ILE	2312	21.447	-24.086	61.676	1.00	21.09
ATOM	15523	CA	ILE	2312	20.467	-23.341	60.137	1.00	21.89
ATOM	15524	CB	ILE	2312	21.110	-22.706	59.266	1.00	19.17
ATOM	15525	CG2	ILE	2312	21.574	-23.746	59.638	1.00	19.61
ATOM	15526	CG1	ILE	2312	20.130	-21.775	58.133	1.00	17.58
ATOM	15527	CD1	ILE	2312	20.741	-20.666	58.117	1.00	20.83
ATOM	15528	C	ILE	2312	19.032	-24.130	57.477	1.00	17.16
ATOM	15529	CE	ILE	2312	19.570	-25.481	59.131	1.00	18.46
ATOM	15530	N	LEU	2313	18.110	-23.574	60.415	1.00	22.96
ATOM	15531	CA	LEU	2313	16.951	-24.034	60.119	1.00	19.89
ATOM	15532	CB	LEU	2313	16.458	-25.518	61.119	1.00	22.34
ATOM	15533	CG	LEU	2313	16.079	-26.730	61.119	1.00	16.67
ATOM	15534	CD1	LEU	2313	15.477	-27.126	60.119	1.00	20.76
ATOM	15535	CE3	LEU	2313	15.110	-27.077	60.119	1.00	19.13
ATOM	15536	C	LEU	2313	14.817	-23.769	59.119	1.00	19.08
ATOM	15537	O	LEU	2313	15.752	-22.978	60.119	1.00	26.54
ATOM	15538	N	VAL	2314	15.088	-24.586	60.819	1.00	18.13
ATOM	15539	CA	VAL	2314	13.984	-21.395	61.819	1.00	19.96
ATOM	15540	CB	VAL	2314	13.493	-24.457	60.619	1.00	18.17
ATOM	15541	CG1	VAL	2314	13.350	-23.892	60.119	1.00	18.10
ATOM	15542	CG2	VAL	2314	14.038	-24.038	60.619	1.00	18.18
ATOM	15543	C	VAL	2314	12.857	-23.778	59.619	1.00	18.32
ATOM	15544	O	VAL	2314	13.201	-24.654	60.619	1.00	20.10
ATOM	15545	N	MET	2315	12.444	-22.431	59.119	1.00	21.58
ATOM	15546	CA	MET	2315	11.367	-21.198	60.119	1.00	21.58
ATOM	15547	CB	MET	2315	11.051	-20.711	60.119	1.00	20.69
ATOM	15548	CG	MET	2315	10.559	-20.145	58.619	1.00	20.17
ATOM	15549	SD	MET	2315	9.305	-18.854	59.119	1.00	18.44
ATOM	15550	CE	MET	2315	7.864	-19.873	59.419	1.00	17.93
ATOM	15551	C	MET	2315	10.102	-22.996	59.619	1.00	21.84
ATOM	15552	O	MET	2315	8.410	-23.460	60.119	1.00	24.09
ATOM	15553	N	HIS	2316	8.807	-23.182	58.119	1.00	23.64
ATOM	15554	CA	HIS	2316	8.016	-23.903	58.180	1.00	21.87
ATOM	15555	CB	HIS	2316	8.445	-23.796	58.619	1.00	21.29
ATOM	15556	CG	HIS	2316	7.970	-22.442	58.119	1.00	20.22
ATOM	15557	CD2	HIS	2316	8.661	-21.118	58.619	1.00	17.37
ATOM	15558	ND1	HIS	2316	8.633	-22.120	58.119	1.00	20.75
ATOM	15559	CE1	HIS	2316	6.511	-20.744	58.619	1.00	20.50
ATOM	15560	NE3	HIS	2316	8.711	-20.133	58.619	1.00	20.64
ATOM	15561	C	HIS	2316	8.611	-25.760	58.619	1.00	24.11
ATOM	15562	O	HIS	2316	7.551	-25.765	58.119	1.00	23.54
ATOM	15563	N	ASP	2317	8.790	-25.936	58.619	1.00	15.53
ATOM	15564	CA	ASP	2317	8.850	-27.113	59.319	1.00	17.90
ATOM	15565	CB	ASP	2317	11.101	-28.029	58.819	1.00	21.10
ATOM	15566	CG	ASP	2317	10.334	-28.138	59.119	1.00	21.37
ATOM	15567	CD1	ASP	2317	8.436	-29.002	58.619	1.00	16.18
ATOM	15568	OE1	ASP	2317	11.944	-28.105	58.519	1.00	25.40
ATOM	15569	C	ASP	2317	8.974	-27.191	60.819	1.00	17.46
ATOM	15570	O	ASP	2317	8.268	-28.140	61.519	1.00	18.41
ATOM	15571	N	ALA	2318	11.521	-26.004	61.419	1.00	18.19
ATOM	15572	CA	ALA	2318	10.703	-26.354	62.819	1.00	19.17
ATOM	15573	CB	ALA	2318	11.566	-24.746	63.119	1.00	21.06
ATOM	15574	C	ALA	2318	8.357	-26.035	63.519	1.00	20.52
ATOM	15575	O	ALA	2318	8.230	-26.071	64.519	1.00	20.59
ATOM	15576	N	PHE	2319	8.355	-25.126	62.819	1.00	19.73
ATOM	15577	CA	PHE	2319	7.029	-25.057	63.419	1.00	19.63
ATOM	15578	CB	PHE	2319	6.545	-23.617	63.119	1.00	19.46
ATOM	15579	CG	PHE	2319	7.529	-22.686	63.119	1.00	21.82
ATOM	15580	CD1	PHE	2319	8.150	-21.026	64.519	1.00	22.14
ATOM	15581	OE1	PHE	2319	8.827	-21.978	63.619	1.00	22.09
ATOM	15582	OE2	PHE	2319	8.056	-22.767	63.519	1.00	22.67

ATOM	15583	CE2	PHE	2319	8.731	-27.818	63.365	1.00	32.42
ATOM	15584	CZ	PHE	2319	9.237	-28.967	64.605	1.00	33.77
ATOM	15585	C	PHE	2319	6.017	-26.518	65.818	1.00	18.48
ATOM	15586	C	PHE	2319	4.811	-27.115	62.941	1.00	19.59
ATOM	15587	N	GLY	2320	6.515	-17.769	62.175	1.00	6.46
ATOM	15588	CA	GLY	2320	5.639	-28.757	61.573	1.00	19.72
ATOM	15589	C	GLY	2320	4.618	-27.806	66.597	1.00	28.92
ATOM	15590	C	GLY	2320	3.574	-28.410	66.380	1.00	28.13
ATOM	15591	N	ILE	2321	4.915	-26.647	60.607	1.00	28.40
ATOM	15592	CA	ILE	2321	4.001	-16.629	59.047	1.00	18.56
ATOM	15593	CB	ILE	2321	4.421	-14.577	58.729	1.00	19.95
ATOM	15594	CG2	ILE	2321	3.532	-23.991	55.648	1.00	28.95
ATOM	15595	CG1	ILE	2321	4.542	-23.721	60.001	1.00	27.15
ATOM	15596	CD1	ILE	2321	4.875	-21.529	59.853	1.00	28.13
ATOM	15597	C	ILE	2321	3.946	-16.821	57.748	1.00	26.05
ATOM	15598	O	ILE	2321	2.856	-17.052	57.190	1.00	28.13
ATOM	15599	N	THR	2322	5.196	-27.249	57.264	1.00	31.15
ATOM	15600	CA	THR	2322	5.167	-28.000	56.031	1.00	27.43
ATOM	15601	CB	THR	2322	6.527	-17.941	55.417	1.00	19.64
ATOM	15602	CG1	THR	2322	7.433	-23.764	56.190	1.00	41.57
ATOM	15603	CG2	THR	2322	7.664	-26.520	55.419	1.00	38.66
ATOM	15604	C	THR	2322	4.573	-17.454	56.241	1.00	40.11
ATOM	15605	O	THR	2322	5.227	-18.111	57.147	1.00	43.84
ATOM	15606	N	GLY	2323	3.861	-17.994	55.417	1.00	41.61
ATOM	15607	CA	GLY	2323	3.339	-17.577	55.509	1.00	48.75
ATOM	15608	C	GLY	2323	3.536	-17.967	56.868	1.00	51.73
ATOM	15609	O	GLY	2323	3.226	-17.568	57.990	1.00	51.14
ATOM	15610	N	GLY	2324	4.089	-17.159	56.867	1.00	57.13
ATOM	15611	CA	GLY	2324	4.509	-16.991	58.178	1.00	51.86
ATOM	15612	C	GLY	2324	5.535	-16.768	58.067	1.00	58.62
ATOM	15613	O	GLY	2324	5.938	-16.351	59.076	1.00	57.61
ATOM	15614	N	HIS	2325	6.113	-14.887	56.881	1.00	56.77
ATOM	15615	CA	HIS	2325	7.721	-17.770	56.791	1.00	58.43
ATOM	15616	CB	HIS	2325	7.148	-16.864	55.477	1.00	58.75
ATOM	15617	CG	HIS	2325	5.909	-17.731	55.571	1.00	61.46
ATOM	15618	CD2	HIS	2325	4.881	-17.471	54.788	1.00	61.81
ATOM	15619	ND1	HIS	2325	5.887	-16.487	56.576	1.00	60.75
ATOM	15620	CE1	HIS	2325	4.773	-16.141	56.489	1.00	68.14
ATOM	15621	NE2	HIS	2325	4.121	-16.677	55.359	1.00	61.81
ATOM	15622	C	HIS	2325	8.577	-16.852	56.547	1.00	58.81
ATOM	15623	O	HIS	2325	9.174	-16.868	55.477	1.00	58.63
ATOM	15624	N	ILE	2326	8.959	-16.177	57.621	1.00	58.17
ATOM	15625	CA	ILE	2326	10.173	-16.118	57.607	1.00	58.77
ATOM	15626	CB	ILE	2326	10.230	-16.488	58.898	1.00	58.89
ATOM	15627	CG2	ILE	2326	8.991	-16.611	59.047	1.00	58.89
ATOM	15628	CG1	ILE	2326	10.388	-16.408	60.110	1.00	57.96
ATOM	15629	CD1	ILE	2326	10.626	-16.871	61.411	1.00	58.65
ATOM	15630	C	ILE	2326	11.498	-16.151	60.477	1.00	48.48
ATOM	15631	O	ILE	2326	11.400	-16.456	60.777	1.00	48.12
ATOM	15632	N	PRO	2327	12.521	-16.827	60.079	1.00	46.65
ATOM	15633	CD	PRO	2327	12.695	-16.159	60.748	1.00	46.53
ATOM	15634	CA	PRO	2327	13.789	-16.747	60.907	1.00	47.07
ATOM	15635	CB	PRO	2327	14.710	-16.100	60.296	1.00	47.91
ATOM	15636	CG	PRO	2327	14.194	-16.418	60.854	1.00	46.83
ATOM	15637	C	PRO	2327	14.317	-16.176	60.247	1.00	46.14
ATOM	15638	O	PRO	2327	13.291	-16.798	60.318	1.00	46.61
ATOM	15639	N	LYS	2328	15.144	-16.833	60.168	1.00	41.21
ATOM	15640	CA	LYS	2328	15.716	-16.456	60.354	1.00	43.78
ATOM	15641	CB	LYS	2328	16.536	-16.590	60.967	1.00	41.48
ATOM	15642	CG	LYS	2328	14.696	-16.747	58.617	1.00	47.93
ATOM	15643	CD	LYS	2328	14.785	-16.831	57.741	1.00	47.38
ATOM	15644	CE	LYS	2328	13.779	-16.779	57.215	1.00	47.48
ATOM	15645	NZ	LYS	2328	13.793	-16.463	56.165	1.00	46.27
ATOM	15646	C	LYS	2328	16.583	-16.553	60.181	1.00	41.61
ATOM	15647	O	LYS	2328	17.174	-16.771	61.376	1.00	41.87
ATOM	15648	N	PHE	2329	17.172	-16.483	59.553	1.00	41.28
ATOM	15649	CA	PHE	2329	17.995	-16.514	60.262	1.00	28.57
ATOM	15650	CB	PHE	2329	18.038	-16.967	59.315	1.00	28.67
ATOM	15651	CG	PHE	2329	16.489	-16.246	58.089	1.00	28.65
ATOM	15652	CD	PHE	2329	17.494	-16.034	58.157	1.00	28.21
ATOM	15653	CE	PHE	2329	18.596	-16.935	56.857	1.00	28.00
ATOM	15654	CE1	PHE	2329	17.470	-16.367	57.011	1.00	28.14
ATOM	15655	CE2	PHE	2329	16.126	-17.359	55.708	1.00	33.09
ATOM	15656	CE	PHE	2329	17.558	-16.023	55.785	1.00	29.29
ATOM	15657	O	PHE	2329	17.179	-16.365	60.896	1.00	28.13
ATOM	15658	C	PHE	2329	17.254	-16.568	61.643	1.00	24.18
ATOM	15659	N	ALA	2330	16.988	-16.188	60.997	1.00	16.38

ATOM	15660	CA	ALA	2330	15.051	-31.225	61.133	1.00	25.12
ATOM	15661	CB	ALA	2330	14.109	-30.721	60.048	1.00	24.79
ATOM	15662	C	ALA	2330	14.250	-31.701	62.336	1.00	25.45
ATOM	15663	O	ALA	2330	14.066	-32.900	62.540	1.00	26.65
ATOM	15664	N	LYS	2331	13.761	-30.751	63.117	1.00	25.57
ATOM	15665	CA	LYS	2331	12.966	-31.068	64.299	1.00	26.38
ATOM	15666	CB	LYS	2331	12.861	-31.095	65.541	1.00	26.14
ATOM	15667	CG	LYS	2331	12.778	-31.335	66.857	1.00	27.14
ATOM	15668	CD	LYS	2331	14.114	-31.421	68.017	1.00	27.67
ATOM	15669	CE	LYS	2331	13.404	-31.581	69.352	1.00	28.98
ATOM	15670	NZ	LYS	2331	14.389	-31.781	70.465	1.00	29.48
ATOM	15671	C	LYS	2331	11.845	-30.053	64.486	1.00	24.96
ATOM	15672	O	LYS	2331	12.060	-18.844	64.571	1.00	13.56
ATOM	15673	N	ASN	2332	10.647	-30.567	64.758	1.00	24.16
ATOM	15674	CA	ASN	2332	9.488	-29.690	64.981	1.00	23.93
ATOM	15675	CB	ASN	2332	8.197	-30.456	64.641	1.00	23.16
ATOM	15676	CG	ASN	2332	6.941	-29.695	64.955	1.00	22.69
ATOM	15677	OD1	ASN	2332	7.009	-28.840	65.474	1.00	23.16
ATOM	15678	OD2	ASN	2332	5.768	-30.216	64.641	1.00	13.07
ATOM	15679	C	ASN	2332	9.469	-18.856	64.416	1.00	13.14
ATOM	15680	O	ASN	2332	9.668	-18.156	65.311	1.00	13.07
ATOM	15681	N	PRO	2333	9.354	-18.664	66.728	1.00	18.74
ATOM	15682	CA	PRO	2333	9.884	-17.867	66.165	1.00	26.10
ATOM	15683	CB	PRO	2333	10.884	-16.411	66.145	1.00	27.97
ATOM	15684	CG	PRO	2333	12.117	-16.826	66.191	1.00	28.16
ATOM	15685	CD1	PRO	2333	12.835	-16.961	66.846	1.00	24.93
ATOM	15686	CD2	PRO	2333	13.481	-17.186	67.154	1.00	27.15
ATOM	15687	CE1	PRO	2333	14.210	-17.330	67.706	1.00	28.16
ATOM	15688	CE2	PRO	2333	14.346	-17.498	67.008	1.00	17.75
ATOM	15689	CZ	PRO	2333	14.882	-17.639	67.836	1.00	24.35
ATOM	15690	C	PRO	2333	8.809	-20.156	68.696	1.00	13.07
ATOM	15691	O	PRO	2333	8.105	-20.112	66.811	1.00	16.59
ATOM	15692	N	LEU	2334	7.663	-16.773	67.662	1.00	18.93
ATOM	15693	CA	LEU	2334	6.266	-16.550	66.900	1.00	26.14
ATOM	15694	CB	LEU	2334	5.497	-15.550	66.889	1.00	28.12
ATOM	15695	CG	LEU	2334	4.387	-14.843	66.150	1.00	13.15
ATOM	15696	CD1	LEU	2334	3.883	-14.152	66.375	1.00	14.15
ATOM	15697	CD2	LEU	2334	3.563	-14.890	66.264	1.00	26.02
ATOM	15698	C	LEU	2334	5.448	-12.485	66.771	1.00	13.17
ATOM	15699	O	LEU	2334	4.160	-12.107	66.757	1.00	12.10
ATOM	15700	N	ALA	2335	5.666	-20.673	66.177	1.00	15.05
ATOM	15701	CA	ALA	2335	5.390	-20.877	66.664	1.00	26.14
ATOM	15702	CB	ALA	2335	5.766	-19.971	66.916	1.00	18.92
ATOM	15703	C	ALA	2335	5.453	-30.162	70.150	1.00	41.82
ATOM	15704	O	ALA	2335	4.646	-30.605	70.450	1.00	42.61
ATOM	15705	N	GLU	2336	6.380	-19.890	71.414	1.00	35.17
ATOM	15706	CA	GLU	2336	7.175	-20.131	71.761	1.00	33.42
ATOM	15707	CB	GLU	2336	8.790	-20.895	71.741	1.00	39.15
ATOM	15708	CG	GLU	2336	9.881	-20.908	71.336	1.00	52.10
ATOM	15709	CD	GLU	2336	9.781	-33.146	71.668	1.00	53.56
ATOM	15710	OE1	GLU	2336	8.701	-32.131	71.905	1.00	54.43
ATOM	15711	OE2	GLU	2336	10.888	-33.835	71.997	1.00	54.14
ATOM	15712	C	GLU	2336	6.633	-29.139	71.739	1.00	44.87
ATOM	15713	O	GLU	2336	6.899	-29.184	73.941	1.00	49.41
ATOM	15714	N	THR	2337	5.816	-16.838	71.311	1.00	13.17
ATOM	15715	CA	THR	2337	5.170	-17.323	71.925	1.00	41.86
ATOM	15716	CB	THR	2337	6.004	-15.946	71.137	1.00	59.87
ATOM	15717	OG1	THR	2337	5.387	-14.933	74.908	1.00	52.74
ATOM	15718	OG2	THR	2337	6.285	-15.314	71.764	1.00	51.13
ATOM	15719	C	THR	2337	3.781	-16.853	72.421	1.00	13.10
ATOM	15720	O	THR	2337	3.119	-17.676	71.760	1.00	13.14
ATOM	15721	N	GLY	2338	3.386	-15.913	72.651	1.00	13.13
ATOM	15722	CA	GLY	2338	3.060	-15.173	72.111	1.00	13.11
ATOM	15723	C	GLY	2338	3.135	-13.733	71.689	1.00	13.12
ATOM	15724	O	GLY	2338	1.117	-13.163	71.143	1.00	13.16
ATOM	15725	N	ASP	2339	3.817	-13.131	71.795	1.00	13.11
ATOM	15726	CA	ASP	2339	3.513	-21.739	71.426	1.00	34.15
ATOM	15727	CB	ASP	2339	3.672	-20.835	72.699	1.00	13.19
ATOM	15728	CG	ASP	2339	3.966	-19.444	72.401	1.00	13.15
ATOM	15729	OD1	ASP	2339	3.137	-19.121	72.111	1.00	41.87
ATOM	15730	OD2	ASP	2339	3.018	-18.621	72.448	1.00	45.36
ATOM	15731	C	ASP	2339	4.743	-21.583	70.535	1.00	35.10
ATOM	15732	O	ASP	2339	5.797	-22.194	70.809	1.00	33.62
ATOM	15733	N	ILE	2340	4.613	-20.813	69.474	1.00	33.17
ATOM	15734	CA	ILE	2340	5.722	-20.606	68.540	1.00	29.10
ATOM	15735	CB	ILE	2340	5.768	-19.752	67.343	1.00	28.153
ATOM	15736	CG	ILE	2340	5.337	-19.496	66.400	1.00	16.140

ATOM	15737	CG1	ILE	2340	4.143	-20.477	66.587	1.00	27.31
ATOM	15738	CD1	ILE	2340	3.507	-13.652	65.474	1.00	27.21
ATOM	15739	C	ILE	2340	6.930	-13.945	69.202	1.00	27.86
ATOM	15740	O	ILE	2340	8.064	-29.405	69.045	1.00	27.30
ATOM	15741	N	AFG	2341	6.697	-18.867	69.942	1.00	25.33
ATOM	15742	CA	AFG	2341	7.788	-18.180	70.611	1.00	24.57
ATOM	15743	CB	AFG	2341	7.268	-16.957	71.623	1.00	23.55
ATOM	15744	CG	AFG	2341	6.902	-11.805	70.349	1.00	24.36
ATOM	15745	CD	AFG	2341	6.378	-14.561	71.651	1.00	27.22
ATOM	15746	NE	AFG	2341	6.050	-13.561	70.691	1.00	27.15
ATOM	15747	CZ	AFG	2341	5.076	-13.575	69.500	1.00	28.26
ATOM	15748	NH1	AFG	2341	4.308	-14.651	69.149	1.00	26.92
ATOM	15749	NH2	AFG	2341	4.871	-12.578	68.754	1.00	25.62
ATOM	15750	O	AFG	2341	8.499	-13.216	71.524	1.00	24.05
ATOM	15751	O	AFG	2341	9.713	-13.056	71.753	1.00	23.67
ATOM	15752	N	ALA	2342	7.741	-23.019	72.102	1.00	23.18
ATOM	15753	CA	ALA	2342	8.307	-23.987	73.138	1.00	24.94
ATOM	15754	CB	ALA	2342	7.196	-17.758	73.838	1.00	24.89
ATOM	15755	C	ALA	2342	9.179	-21.997	72.567	1.00	24.78
ATOM	15756	O	ALA	2342	10.134	-17.344	72.565	1.00	23.19
ATOM	15757	N	ALA	2343	8.225	-17.322	71.135	1.00	22.90
ATOM	15758	CA	ALA	2343	9.485	-17.110	70.151	1.00	21.70
ATOM	15759	CB	ALA	2343	8.648	-11.281	69.049	1.00	27.10
ATOM	15760	C	ALA	2343	10.810	-11.274	69.569	1.00	26.13
ATOM	15761	O	ALA	2343	11.840	-11.346	69.410	1.00	19.96
ATOM	15762	C	VAL	2344	10.774	-11.177	69.354	1.00	26.17
ATOM	15763	CA	VAL	2344	11.264	-10.110	69.295	1.00	26.13
ATOM	15764	CB	VAL	2344	11.212	-11.069	68.119	1.00	19.54
ATOM	15765	CG1	VAL	2344	12.883	-11.263	68.609	1.00	22.02
ATOM	15766	CG2	VAL	2344	12.771	-13.007	67.564	1.00	21.23
ATOM	15767	C	VAL	2344	12.353	-13.078	70.337	1.00	26.91
ATOM	15768	O	VAL	2344	14.186	-13.065	70.115	1.00	18.15
ATOM	15769	N	ARG	2345	12.584	-20.967	71.532	1.00	21.37
ATOM	15770	CA	ARG	2345	15.410	-20.974	72.151	1.00	19.97
ATOM	15771	CB	ARG	2345	12.663	-13.858	72.068	1.00	14.17
ATOM	15772	CG	ARG	2345	12.187	-11.413	72.151	1.00	24.76
ATOM	15773	CD	ARG	2345	11.787	-13.500	72.150	1.00	21.92
ATOM	15774	NE	ARG	2345	10.363	-13.513	72.151	1.00	27.57
ATOM	15775	CZ	ARG	2345	9.465	-13.611	72.151	1.00	28.92
ATOM	15776	NH1	ARG	2345	9.127	-11.246	74.153	1.00	18.97
ATOM	15777	NH2	ARG	2345	8.664	-12.417	74.218	1.00	26.22
ATOM	15778	O	ARG	2345	10.366	-11.541	72.033	1.00	13.12
ATOM	15779	O	ARG	2345	15.155	-11.339	72.151	1.00	18.08
ATOM	15780	N	GLN	2346	13.173	-21.778	72.221	1.00	24.82
ATOM	15781	CA	GLN	2346	13.643	-21.147	72.080	1.00	25.54
ATOM	15782	CB	GLN	2346	12.503	-21.113	72.375	1.00	27.18
ATOM	15783	CG	GLN	2346	12.832	-26.909	72.677	1.00	32.29
ATOM	15784	CD	GLN	2346	11.790	-23.544	72.666	1.00	36.43
ATOM	15785	OE1	GLN	2346	10.589	-23.169	72.509	1.00	38.83
ATOM	15786	NE2	GLN	2346	12.242	-23.746	72.648	1.00	36.41
ATOM	15787	C	GLN	2346	14.753	-21.463	72.033	1.00	25.43
ATOM	15788	O	GLN	2346	15.747	-21.204	72.033	1.00	24.79
ATOM	15789	N	TYR	2347	14.521	-23.008	70.158	1.00	24.34
ATOM	15790	CA	TYR	2347	15.555	-24.243	69.633	1.00	24.09
ATOM	15791	CB	TYR	2347	15.013	-23.659	69.738	1.00	24.72
ATOM	15792	CG	TYR	2347	16.047	-23.560	67.153	1.00	24.42
ATOM	15793	CH1	TYR	2347	16.883	-24.666	66.413	1.00	23.35
ATOM	15794	CH2	TYR	2347	17.814	-24.540	65.833	1.00	23.82
ATOM	15795	CH3	TYR	2347	16.248	-23.338	65.533	1.00	23.75
ATOM	15796	CR	TYR	2347	17.121	-23.230	65.433	1.00	23.65
ATOM	15797	C	TYR	2347	17.952	-23.347	65.133	1.00	23.12
ATOM	15798	OH	TYR	2347	16.864	-23.336	64.133	1.00	23.29
ATOM	15799	O	TYR	2348	16.871	-23.339	70.032	1.00	23.13
ATOM	15800	C	TRP	2349	17.933	-23.335	63.032	1.00	23.75
ATOM	15801	N	TRP	2349	16.743	-22.330	70.531	1.00	24.75
ATOM	15802	CA	TRP	2349	17.966	-21.535	70.337	1.00	25.61
ATOM	15803	CB	TRP	2349	17.636	-20.179	71.335	1.00	26.13
ATOM	15804	CG	TRP	2349	17.036	-19.373	70.333	1.00	26.95
ATOM	15805	CH	TRP	2349	16.246	-17.331	70.938	1.00	30.82
ATOM	15806	CR	TRP	2349	17.510	-17.076	71.910	1.00	28.84
ATOM	15807	C	TRP	2349	18.718	-22.335	71.990	1.00	25.32
ATOM	15808	O	TRP	2349	19.973	-22.437	71.944	1.00	24.27
ATOM	15809	N	ALA	2350	17.933	-22.732	72.923	1.00	25.63
ATOM	15810	CA	ALA	2350	18.516	-23.490	74.121	1.00	26.87
ATOM	15811	CB	ALA	2350	17.432	-23.694	75.165	1.00	26.84
ATOM	15812	C	ALA	2350	19.189	-24.632	73.784	1.00	23.52
ATOM	15813	O	ALA	2350	19.625	-29.634	74.133	1.00	23.85

ATCM	15814	N	GLU	2350	18.461	-15.681	73.065	1.00	27.55
ATCM	15815	CA	GLU	2350	18.982	-16.498	72.715	1.00	18.05
ATCM	15816	CB	GLU	2350	17.908	-17.852	72.020	1.00	17.67
ATCM	15817	CG	GLU	2350	16.646	-18.041	72.838	1.00	30.81
ATCM	15818	CD	GLU	2350	15.822	-18.206	71.321	1.00	10.48
ATCM	15819	CE1	GLU	2350	15.869	-19.425	73.108	1.00	32.21
ATCM	15820	CE2	GLU	2350	15.114	-19.849	73.135	1.00	33.22
ATCM	15821	C	GLU	2350	20.282	-16.937	71.844	1.00	28.06
ATCM	15822	C	GLU	2350	21.658	-17.849	71.877	1.00	26.63
ATCM	15823	E	VAL	2351	20.375	-18.873	71.069	1.00	28.58
ATCM	15824	CA	VAL	2351	21.549	-19.722	70.119	1.00	28.48
ATCM	15825	CB	VAL	2351	21.364	-18.605	69.161	1.00	29.83
ATCM	15826	CG1	VAL	2351	22.638	-18.341	68.438	1.00	18.86
ATCM	15827	CG2	VAL	2351	20.291	-19.063	68.161	1.00	26.63
ATCM	15828	C	VAL	2351	22.781	-19.466	71.091	1.00	20.81
ATCM	15829	C	VAL	2351	20.787	-19.061	71.000	1.00	19.24
ATCM	15830	N	GLU	2352	22.127	-19.404	71.451	1.00	11.04
ATCM	15831	CA	GLU	2352	22.636	-20.097	71.841	1.00	23.16
ATCM	15832	CB	GLU	2352	22.141	-19.206	71.681	1.00	34.00
ATCM	15833	CG	GLU	2352	24.773	-19.226	74.111	1.00	28.10
ATCM	15834	CD	GLU	2352	23.903	-19.011	72.823	1.00	40.42
ATCM	15835	CE1	GLU	2352	24.717	-19.441	74.104	1.00	41.56
ATCM	15836	CE2	GLU	2352	22.765	-19.531	72.153	1.00	42.13
ATCM	15837	C	GLU	2352	24.138	-19.117	71.780	1.00	34.28
ATCM	15838	C	GLU	2352	23.186	-19.160	74.090	1.00	34.22
ATCM	15839	N	SER	2352	23.113	-19.063	74.166	1.00	31.14
ATCM	15840	CA	SER	2352	23.618	-19.081	73.031	1.00	34.32
ATCM	15841	CB	SER	2352	22.196	-19.138	73.815	1.00	35.34
ATCM	15842	CG	SER	2352	21.739	-19.429	73.653	1.00	42.27
ATCM	15843	CD	SER	2352	21.971	-19.118	73.399	1.00	34.32
ATCM	15844	C	SER	2352	24.668	-19.180	74.883	1.00	31.68
ATCM	15845	E	GLY	2354	21.777	-18.178	72.820	1.00	21.46
ATCM	15846	CA	GLY	2354	21.152	-18.463	72.127	1.00	21.21
ATCM	15847	CB	GLY	2354	23.068	-18.618	71.770	1.00	30.30
ATCM	15848	C	GLY	2354	23.111	-18.117	71.373	1.00	21.34
ATCM	15849	N	VAL	2354	21.611	-18.101	71.341	1.00	19.15
ATCM	15850	CA	VAL	2354	20.814	-18.128	71.771	1.00	18.20
ATCM	15851	CB	VAL	2354	19.811	-18.118	71.547	1.00	19.10
ATCM	15852	CG1	VAL	2354	18.434	-18.121	71.810	1.00	19.45
ATCM	15853	CG2	VAL	2354	20.977	-18.143	74.326	1.00	32.59
ATCM	15854	C	VAL	2354	20.836	-18.121	71.161	1.00	27.69
ATCM	15855	C	VAL	2354	19.411	-18.140	70.863	1.00	16.05
ATCM	15856	N	TYR	2356	20.839	-18.133	73.108	1.00	18.08
ATCM	15857	CA	TYR	2356	19.237	-18.151	69.093	1.00	16.36
ATCM	15858	CB	TYR	2356	18.111	-18.543	68.583	1.00	15.36
ATCM	15859	CG	TYR	2356	18.204	-18.420	67.436	1.00	15.65
ATCM	15860	CD1	TYR	2356	17.733	-18.160	66.817	1.00	15.65
ATCM	15861	CE1	TYR	2356	17.433	-18.160	67.433	1.00	15.60
ATCM	15862	CD2	TYR	2356	18.568	-18.156	66.653	1.00	14.57
ATCM	15863	CE2	TYR	2356	18.271	-18.134	65.293	1.00	14.48
ATCM	15864	CZ	TYR	2356	17.700	-18.466	64.373	1.00	15.02
ATCM	15865	OH	TYR	2356	17.413	-18.471	63.361	1.00	15.86
ATCM	15866	C	TYR	2356	21.809	-18.144	64.113	1.00	17.03
ATCM	15867	C	TYR	2356	21.644	-18.163	64.740	1.00	16.04
ATCM	15868	N	PRO	2357	21.143	-18.140	67.134	1.00	19.12
ATCM	15869	CD	PRO	2357	22.345	-18.067	65.081	1.00	19.21
ATCM	15870	CA	PRO	2357	20.811	-18.600	65.603	1.00	10.27
ATCM	15871	CB	PRO	2357	21.171	-18.671	65.162	1.00	10.86
ATCM	15872	CG	PRO	2357	22.444	-18.033	63.143	1.00	10.26
ATCM	15873	C	PRO	2357	21.131	-18.436	67.137	1.00	12.19
ATCM	15874	C	PRO	2357	22.133	-18.213	67.001	1.00	11.24
ATCM	15875	N	GLY	2358	20.136	-18.187	67.503	1.00	13.64
ATCM	15876	CA	GLY	2358	20.113	-18.093	68.106	1.00	15.89
ATCM	15877	C	GLY	2358	21.121	-18.113	67.111	1.00	16.20
ATCM	15878	C	GLY	2358	21.183	-18.116	65.100	1.00	14.73
ATCM	15879	N	GLU	2359	21.051	-17.113	67.883	1.00	18.10
ATCM	15880	CA	GLU	2359	22.111	-18.369	69.795	1.00	40.49
ATCM	15881	CB	GLU	2359	22.107	-18.612	67.553	1.00	42.44
ATCM	15882	CG	GLU	2359	22.114	-19.830	65.773	1.00	45.21
ATCM	15883	CD	GLU	2359	23.173	-19.805	65.783	1.00	46.88
ATCM	15884	CE1	GLU	2359	24.081	-19.352	64.786	1.00	47.42
ATCM	15885	CE2	GLU	2359	24.192	-19.691	64.045	1.00	48.14
ATCM	15886	C	GLU	2359	21.031	-18.731	65.765	1.00	41.67
ATCM	15887	C	GLU	2359	21.828	-18.164	64.689	1.00	42.13
ATCM	15888	N	GLU	2360	19.173	-18.548	66.180	1.00	40.84
ATCM	15889	CA	GLU	2360	18.847	-18.602	65.381	1.00	41.11
ATCM	15890	CB	GLU	2360	17.311	-18.762	66.063	1.00	43.14

ATOM	15891	CG	GLU	2360	17.420	-39.113	67.543	1.00	47.07
ATOM	15892	CD	GLU	2360	17.695	-37.944	68.889	1.00	48.49
ATOM	15893	OE1	GLU	2360	17.122	-38.972	68.547	1.00	48.54
ATOM	15894	OE2	GLU	2360	19.640	-37.993	68.899	1.00	49.09
ATOM	15895	O	GLU	2360	18.600	-37.912	64.189	1.00	49.20
ATOM	15896	O	GLU	2360	18.018	-38.131	63.037	1.00	49.08
ATOM	15897	N	HIS	2361	18.124	-36.748	64.761	1.00	38.76
ATOM	15898	CA	HIS	2361	18.126	-38.735	63.71	1.00	37.83
ATOM	15899	CB	HIS	2361	18.890	-34.368	63.839	1.00	37.42
ATOM	15900	CG	HIS	2361	17.711	-34.382	64.722	1.00	37.85
ATOM	15901	CD2	HIS	2361	17.616	-34.163	66.096	1.00	37.85
ATOM	15902	ND1	HIS	2361	18.436	-34.685	64.738	1.00	37.39
ATOM	15903	CE1	HIS	2361	17.601	-34.644	63.331	1.00	37.41
ATOM	15904	NE2	HIS	2361	18.797	-34.329	66.496	1.00	37.44
ATOM	15905	C	HIS	2361	20.488	-35.639	63.514	1.00	37.16
ATOM	15906	C	HIS	2361	21.815	-34.739	61.714	1.00	38.47
ATOM	15907	N	SER	2362	21.479	-36.589	61.879	1.00	37.15
ATOM	15908	CA	SER	2362	21.814	-36.991	62.131	1.00	37.47
ATOM	15909	CB	SER	2362	22.845	-36.119	63.236	1.00	37.94
ATOM	15910	CG	SER	2362	21.437	-36.345	64.234	1.00	38.89
ATOM	15911	C	SER	2362	21.837	-36.727	61.134	1.00	38.18
ATOM	15912	O	SER	2362	22.121	-35.881	61.124	1.00	38.89
ATOM	15913	N	PRO	2363	23.996	-37.839	63.283	1.00	38.60
ATOM	15914	CA	PRO	2363	24.331	-37.617	63.479	1.00	39.17
ATOM	15915	CB	PRO	2363	24.387	-38.114	61.883	1.00	39.30
ATOM	15916	CG	PRO	2363	21.831	-37.134	63.811	1.00	39.62
ATOM	15917	CD1	PRO	2363	23.689	-36.158	63.737	1.00	40.24
ATOM	15918	CD2	PRO	2363	21.863	-36.138	63.381	1.00	39.34
ATOM	15919	CE1	PRO	2363	21.437	-36.608	63.437	1.00	41.02
ATOM	15920	CE2	PRO	2363	20.640	-37.239	63.737	1.00	40.32
ATOM	15921	CZ	PRO	2363	20.339	-36.420	63.334	1.00	40.17
ATOM	15922	C	PRO	2363	25.186	-39.539	60.719	1.00	40.69
ATOM	15923	O	PRO	2363	26.733	-38.423	60.443	1.00	39.62
ATOM	15924	N	HIS	2364	26.139	-40.114	60.14	1.00	41.36
ATOM	15925	CZ	HIS	2364	27.463	-40.134	60.336	1.00	44.92
ATOM	15926	CE	HIS	2364	27.438	-41.343	60.733	1.00	44.32
ATOM	15927	CC	HIS	2364	27.334	-41.903	62.235	1.00	44.87
ATOM	15928	CD2	HIS	2364	26.139	-41.333	62.333	1.00	45.26
ATOM	15929	ND1	HIS	2364	28.139	-40.333	62.333	1.00	45.32
ATOM	15930	CE1	HIS	2364	27.334	-40.713	62.333	1.00	45.82
ATOM	15931	NE2	HIS	2364	26.718	-40.134	62.333	1.00	45.37
ATOM	15932	C	HIS	2364	27.939	-41.537	60.333	1.00	45.86
ATOM	15933	O	HIS	2364	29.113	-41.333	60.333	1.00	47.15
ATOM	15934	OMT	HIS	2364	27.134	-42.331	61.513	1.00	48.19
ATOM	15935	C1	KPL	2365	18.163	-34.454	64.334	1.00	39.39
ATOM	15936	C2	KPL	2365	19.445	-23.498	61.699	1.00	40.45
ATOM	15937	C3	KPL	2365	19.314	-22.439	61.256	1.00	40.25
ATOM	15938	C4	KPL	2365	20.733	-24.331	61.683	1.00	41.68
ATOM	15939	O1	KPL	2365	20.733	-25.331	61.313	1.00	44.61
ATOM	15940	C5	KPL	2365	19.331	-22.331	61.331	1.00	39.00
ATOM	15941	O2	KPL	2365	20.131	-22.333	61.899	1.00	40.74
ATOM	15942	C6	KPL	2365	18.134	-21.333	61.331	1.00	37.37
ATOM	15943	O3	KPL	2365	17.139	-21.333	61.333	1.00	37.05
ATOM	15944	O4	KPL	2365	17.143	-21.333	61.333	1.00	32.40
ATOM	15945	CB	MET	2401	40.136	32.331	43.899	1.00	31.31
ATOM	15946	CG	MET	2401	41.136	32.333	43.899	1.00	32.09
ATOM	15947	SD	MET	2401	42.134	33.330	43.899	1.00	33.64
ATOM	15948	CE	MET	2401	40.137	34.330	43.899	1.00	33.19
ATOM	15949	C	MET	2401	38.137	31.335	43.899	1.00	34.44
ATOM	15950	O	MET	2401	37.136	31.330	43.899	1.00	33.61
ATOM	15951	N	MET	2401	43.137	32.333	43.899	1.00	35.53
ATOM	15952	CA	MET	2401	36.131	31.339	43.899	1.00	35.13
ATOM	15953	N	LYS	2402	36.731	31.331	43.899	1.00	37.39
ATOM	15954	CA	LYS	2402	37.519	31.637	43.899	1.00	35.67
ATOM	15955	CB	LYS	2402	37.239	33.134	43.899	1.00	36.61
ATOM	15956	CG	LYS	2402	36.733	33.135	43.899	1.00	37.39
ATOM	15957	CD	LYS	2402	35.511	33.132	43.899	1.00	38.39
ATOM	15958	CE	LYS	2402	34.531	34.222	43.899	1.00	39.72
ATOM	15959	NE3	LYS	2402	33.113	34.024	43.899	1.00	40.87
ATOM	15960	C	LYS	2402	37.731	31.031	43.899	1.00	62.73
ATOM	15961	O	LYS	2402	38.258	31.636	43.899	1.00	63.72
ATOM	15962	N	PRO	2403	37.454	29.735	39.133	1.00	59.41
ATOM	15963	CD	PRO	2403	37.320	29.060	38.434	1.00	58.79
ATOM	15964	CA	PRO	2403	36.895	28.834	40.135	1.00	55.82
ATOM	15965	CB	PRO	2403	36.081	27.948	40.134	1.00	57.33
ATOM	15966	C	PRO	2403	36.297	27.631	40.134	1.00	58.39
ATOM	15967	O	PRO	2403	37.287	28.132	41.133	1.00	62.34

ATOM	15968	O	PRO	2403	39.149	28.127	41.170	1.00	51.69
ATOM	15969	N	THF	2404	37.605	27.455	42.667	1.00	47.66
ATOM	15970	CA	THF	2404	38.550	26.690	43.463	1.00	43.63
ATOM	15971	CB	THF	2404	37.921	26.341	44.846	1.00	43.73
ATOM	15972	CG1	THF	2404	37.739	27.544	45.988	1.00	43.30
ATOM	15973	CG2	THF	2404	38.935	25.453	45.617	1.00	42.68
ATOM	15974	O	THF	2404	38.887	25.395	42.740	1.00	41.58
ATOM	15975	O	THF	2404	38.667	24.741	42.178	1.00	38.81
ATOM	15976	N	THF	2405	40.163	29.161	42.762	1.00	40.92
ATOM	15977	CA	THF	2405	40.611	28.803	42.101	1.00	40.37
ATOM	15978	CB	THF	2405	41.289	24.317	40.213	1.00	40.36
ATOM	15979	CG1	THF	2405	42.476	24.995	40.954	1.00	40.01
ATOM	15980	CG2	THF	2405	40.817	24.849	39.832	1.00	38.67
ATOM	15981	O	THF	2405	41.667	23.010	42.954	1.00	40.56
ATOM	15982	O	THF	2405	42.106	23.514	43.636	1.00	39.81
ATOM	15983	N	ILE	2406	41.882	21.790	42.521	1.00	40.97
ATOM	15984	CA	ILE	2406	42.815	20.909	43.118	1.00	41.25
ATOM	15985	CB	ILE	2406	43.064	19.613	42.814	1.00	41.47
ATOM	15986	CG2	ILE	2406	43.817	18.600	43.254	1.00	39.98
ATOM	15987	CG1	ILE	2406	41.735	19.036	41.949	1.00	42.65
ATOM	15988	CD1	ILE	2406	41.855	18.077	40.283	1.00	44.77
ATOM	15989	O	ILE	2406	44.154	21.611	43.413	1.00	41.31
ATOM	15990	O	ILE	2406	44.771	21.914	44.481	1.00	40.10
ATOM	15991	N	SER	2407	34.895	22.735	42.147	1.00	41.82
ATOM	15992	CA	SER	2407	35.864	23.643	42.442	1.00	41.16
ATOM	15993	CB	SER	2407	36.041	22.821	41.215	1.00	42.75
ATOM	15994	CG	SER	2407	36.077	23.076	40.816	1.00	43.09
ATOM	15995	O	SER	2407	35.074	22.912	43.659	1.00	41.86
ATOM	15996	O	SER	2407	37.075	24.119	44.117	1.00	41.04
ATOM	15997	N	LEU	2408	34.836	23.335	44.111	1.00	41.22
ATOM	15998	CA	LEU	2408	34.878	23.334	45.157	1.00	40.41
ATOM	15999	CB	LEU	2408	35.455	24.011	45.150	1.00	41.71
ATOM	16000	CG	LEU	2408	35.521	23.138	45.213	1.00	42.81
ATOM	16001	CD1	LEU	2408	35.511	23.031	46.050	1.00	42.95
ATOM	16002	CD2	LEU	2408	36.149	22.789	46.832	1.00	41.39
ATOM	16003	O	LEU	2408	35.136	24.580	46.153	1.00	39.32
ATOM	16004	O	LEU	2408	35.821	23.334	47.111	1.00	38.69
ATOM	16005	N	LEU	2409	34.815	23.345	46.058	1.00	38.01
ATOM	16006	CA	LEU	2409	34.678	22.771	47.356	1.00	37.10
ATOM	16007	CB	LEU	2409	34.742	21.843	47.158	1.00	36.39
ATOM	16008	CG	LEU	2409	35.135	21.559	47.712	1.00	37.34
ATOM	16009	CD1	LEU	2409	35.007	20.164	47.150	1.00	36.39
ATOM	16010	CD2	LEU	2409	35.859	21.569	49.054	1.00	36.07
ATOM	16011	O	LEU	2409	34.103	23.113	47.956	1.00	37.48
ATOM	16012	O	LEU	2409	34.654	22.837	49.055	1.00	37.24
ATOM	16013	N	GLN	2410	34.111	21.893	46.835	1.00	37.34
ATOM	16014	CA	GLN	2410	34.036	21.556	46.759	1.00	36.45
ATOM	16015	CB	GLN	2410	34.477	20.983	45.846	1.00	35.65
ATOM	16016	CG	GLN	2410	34.614	20.333	45.116	1.00	34.36
ATOM	16017	CD	GLN	2410	34.374	19.911	45.593	1.00	35.42
ATOM	16018	OE1	GLN	2410	35.133	19.054	47.118	1.00	35.18
ATOM	16019	NE2	GLN	2410	34.732	18.912	45.514	1.00	35.41
ATOM	16020	O	GLN	2410	34.286	22.477	47.159	1.00	35.19
ATOM	16021	O	GLN	2410	34.507	21.233	48.157	1.00	35.73
ATOM	16022	N	LYS	2411	34.676	23.701	48.158	1.00	35.25
ATOM	16023	CA	LYS	2411	34.341	24.866	47.134	1.00	34.59
ATOM	16024	CB	LYS	2411	34.187	26.114	48.632	1.00	34.48
ATOM	16025	CG	LYS	2411	34.161	25.410	47.114	1.00	34.48
ATOM	16026	CD	LYS	2411	34.192	24.633	48.684	1.00	34.78
ATOM	16027	CE	LYS	2411	34.179	23.917	47.131	1.00	34.93
ATOM	16028	NZ	LYS	2411	34.655	23.115	48.157	1.00	35.19
ATOM	16029	O	LYS	2411	34.113	23.033	48.639	1.00	35.82
ATOM	16030	O	LYS	2411	34.136	23.254	48.153	1.00	35.95
ATOM	16031	N	TYR	2412	34.044	24.816	49.346	1.00	35.70
ATOM	16032	CA	TYR	2412	33.839	24.953	50.777	1.00	36.63
ATOM	16033	CB	TYR	2412	34.184	24.667	51.075	1.00	33.21
ATOM	16034	CG	TYR	2412	35.109	25.792	50.731	1.00	33.60
ATOM	16035	CD1	TYR	2412	35.029	25.573	50.725	1.00	31.35
ATOM	16036	CE1	TYR	2412	34.137	26.613	50.456	1.00	32.37
ATOM	16037	CD2	TYR	2412	35.877	27.073	50.444	1.00	30.61
ATOM	16038	CE2	TYR	2412	34.675	28.115	50.185	1.00	31.74
ATOM	16039	OZ	TYR	2412	33.626	27.874	50.117	1.00	32.93
ATOM	16040	CH	TYR	2412	32.746	28.905	49.908	1.00	35.55
ATOM	16041	O	TYR	2412	34.725	24.929	51.587	1.00	33.83
ATOM	16042	O	TYR	2412	34.164	24.408	51.111	1.00	32.54
ATOM	16043	N	ASP	2413	34.864	23.783	51.115	1.00	32.53
ATOM	16044	CA	ASP	2413	34.111	21.925	51.855	1.00	34.11

ATOM	16045	CB	LYS	2413	49.617	20.437	51.197	1.00	32.95
ATOM	16046	CG	LYS	2413	50.518	19.412	51.871	1.00	31.62
ATOM	16047	CD	LYS	2413	50.161	17.335	51.485	1.00	30.68
ATOM	16048	CE	LYS	2413	51.017	16.336	52.135	1.00	29.20
ATOM	16049	NZ	LYS	2413	50.517	15.696	52.137	1.00	18.10
ATOM	16050	O	LYS	2413	52.137	21.286	51.848	1.00	34.90
ATOM	16051	O	LYS	2413	51.864	21.101	52.848	1.00	33.55
ATOM	16052	N	GLN	2414	51.679	21.815	50.730	1.00	37.33
ATOM	16053	CA	GLN	2414	52.006	23.282	50.531	1.00	36.23
ATOM	16054	CB	GLN	2414	52.300	23.245	49.187	1.00	42.05
ATOM	16055	CG	GLN	2414	52.429	21.605	48.310	1.00	47.04
ATOM	16056	CD	GLN	2414	52.599	23.009	46.784	1.00	49.67
ATOM	16057	OE1	GLN	2414	54.146	24.042	46.513	1.00	51.23
ATOM	16058	NE2	GLN	2414	52.897	21.137	45.850	1.00	49.37
ATOM	16059	C	GLU	2414	52.118	24.415	51.809	1.00	41.31
ATOM	16060	O	GLU	2414	54.136	24.834	52.137	1.00	41.34
ATOM	16061	N	GLU	2414	52.147	21.815	51.704	1.00	41.00
ATOM	16062	CA	GLU	2414	52.313	23.334	52.009	1.00	42.17
ATOM	16063	CB	GLU	2414	52.389	21.336	52.138	1.00	43.73
ATOM	16064	CG	GLU	2414	51.499	21.301	50.734	1.00	46.13
ATOM	16065	CD	GLU	2414	50.683	23.332	50.404	1.00	47.34
ATOM	16066	OE1	GLU	2414	49.401	23.130	50.364	1.00	48.81
ATOM	16067	OE2	GLU	2414	53.392	30.112	49.833	1.00	49.69
ATOM	16068	C	GLU	2414	52.031	26.130	54.024	1.00	41.33
ATOM	16069	O	GLU	2414	52.000	26.130	54.093	1.00	41.33
ATOM	16070	N	LYS	2413	52.231	23.216	54.193	1.00	40.33
ATOM	16071	CA	LYS	2413	53.437	24.245	55.496	1.00	40.61
ATOM	16072	CB	LYS	2413	52.607	21.335	56.133	1.00	41.70
ATOM	16073	CG	LYS	2413	52.999	24.332	55.333	1.00	45.11
ATOM	16074	CD	LYS	2413	54.099	21.888	55.316	1.00	47.09
ATOM	16075	CE	LYS	2413	55.291	21.130	54.333	1.00	39.09
ATOM	16076	NZ	LYS	2413	56.286	21.832	55.333	1.00	36.43
ATOM	16077	O	LYS	2413	56.177	24.334	56.333	1.00	38.33
ATOM	16078	O	LYS	2413	56.047	23.330	57.333	1.00	38.69
ATOM	16079	N	LYS	2413	49.196	23.336	55.333	1.00	36.93
ATOM	16080	CA	LYS	2413	48.007	21.332	55.334	1.00	34.73
ATOM	16081	CB	LYS	2413	47.967	21.332	54.333	1.00	35.33
ATOM	16082	CG	LYS	2413	46.333	21.332	55.333	1.00	36.33
ATOM	16083	CD	LYS	2413	45.943	21.332	54.333	1.00	40.33
ATOM	16084	CE	LYS	2413	46.997	20.333	53.330	1.00	41.83
ATOM	16085	NZ	LYS	2413	46.997	19.334	52.333	1.00	42.33
ATOM	16086	O	LYS	2413	46.917	24.332	55.334	1.00	53.33
ATOM	16087	O	LYS	2413	46.917	23.333	54.334	1.00	51.33
ATOM	16088	N	ARG	2413	46.414	24.332	56.333	1.00	51.33
ATOM	16089	CA	ARG	2413	45.330	23.333	56.333	1.00	39.33
ATOM	16090	CB	ARG	2413	45.333	19.333	58.333	1.00	30.33
ATOM	16091	CG	ARG	2413	46.334	22.333	58.333	1.00	51.33
ATOM	16092	CD	ARG	2413	46.446	21.336	60.333	1.00	53.33
ATOM	16093	NE	ARG	2413	46.333	23.334	60.333	1.00	54.33
ATOM	16094	CZ	ARG	2413	47.336	23.446	62.123	1.00	34.33
ATOM	16095	NH1	ARG	2413	47.333	22.332	62.334	1.00	35.33
ATOM	16096	NH2	ARG	2413	47.338	24.333	62.336	1.00	53.33
ATOM	16097	C	ARG	2413	44.011	23.135	56.136	1.00	18.33
ATOM	16098	O	ARG	2413	43.633	23.330	56.333	1.00	18.33
ATOM	16099	N	PHE	2419	43.333	23.434	55.603	1.00	37.33
ATOM	16100	CA	PHE	2419	43.365	23.335	55.335	1.00	34.33
ATOM	16101	CB	PHE	2419	42.133	21.333	53.338	1.00	35.33
ATOM	16102	CG	PHE	2419	42.331	21.339	52.337	1.00	37.33
ATOM	16103	CD	PHE	2419	41.332	21.330	52.330	1.00	37.33
ATOM	16104	CDE	PHE	2419	41.331	21.330	52.332	1.00	37.33
ATOM	16105	CE1	PHE	2419	41.733	21.333	52.336	1.00	36.33
ATOM	16106	CE2	PHE	2419	41.133	21.333	52.338	1.00	36.33
ATOM	16107	CZ	PHE	2419	41.033	19.333	51.334	1.00	37.33
ATOM	16108	O	PHE	2419	40.837	23.113	55.339	1.00	32.33
ATOM	16109	O	PHE	2419	40.933	21.321	55.334	1.00	39.33
ATOM	16110	N	ALA	2420	33.634	23.333	55.336	1.00	31.33
ATOM	16111	CA	ALA	2420	33.456	23.330	55.337	1.00	32.33
ATOM	16112	CB	ALA	2420	33.617	23.927	56.357	1.00	31.44
ATOM	16113	C	ALA	2420	33.640	23.333	54.330	1.00	32.17
ATOM	16114	O	ALA	2420	33.611	23.332	53.336	1.00	32.74
ATOM	16115	N	THR	2421	33.977	21.512	54.302	1.00	32.82
ATOM	16116	CA	THR	2421	33.138	20.942	53.350	1.00	32.02
ATOM	16117	CB	THR	2421	33.814	19.711	53.110	1.00	34.06
ATOM	16118	CG1	THR	2421	33.061	20.168	52.514	1.00	36.61
ATOM	16119	CG2	THR	2421	35.923	19.109	52.048	1.00	37.64
ATOM	16120	O	THR	2421	34.836	20.509	51.419	1.00	38.63
ATOM	16121	O	THR	2421	34.814	20.334	51.313	1.00	38.67

AT-M	16112	N	ILE	2422	37.759	26.422	54.656	1.00	19.62
AT-M	16113	CA	ILE	2422	37.487	26.040	54.257	1.00	17.25
AT-M	16114	CB	ILE	2422	37.764	26.396	54.811	1.00	19.41
AT-M	16115	CG2	ILE	2422	37.187	26.112	54.667	1.00	20.48
AT-M	16116	CG1	ILE	2422	36.664	26.889	54.792	1.00	21.1
AT-M	16117	CD1	ILE	2422	36.124	27.046	54.604	1.00	21.74
AT-M	16118	C	ILE	2422	37.574	26.332	54.249	1.00	17.69
AT-M	16119	C	ILE	2422	37.727	26.474	54.653	1.00	16.35
AT-M	16120	N	THR	2421	36.627	27.569	54.797	1.00	17.57
AT-M	16121	CA	THR	2423	29.686	27.873	52.697	1.00	20.46
AT-M	16122	CB	THR	2423	29.167	26.175	54.587	1.00	21.53
AT-M	16123	CG1	THR	2423	28.287	26.899	54.608	1.00	22.21
AT-M	16124	CG2	THR	2423	30.327	26.738	54.099	1.00	26.19
AT-M	16125	C	THR	2423	28.514	26.815	53.687	1.00	19.08
AT-M	16126	C	THR	2423	28.217	26.678	54.504	1.00	18.44
AT-M	16127	N	ALA	2424	27.877	26.661	54.157	1.00	18.78
AT-M	16128	CA	ALA	2424	26.737	26.476	54.133	1.00	16.80
AT-M	16129	CB	ALA	2424	27.187	26.720	54.294	1.00	17.89
AT-M	16130	C	ALA	2424	27.847	26.614	54.263	1.00	17.59
AT-M	16131	C	ALA	2424	26.347	26.787	54.157	1.00	15.04
AT-M	16132	N	TYE	2425	24.533	26.795	54.137	1.00	18.37
AT-M	16133	CB	TYE	2425	27.677	26.982	54.254	1.00	17.37
AT-M	16134	CB	TYE	2425	27.097	26.837	54.138	1.00	16.33
AT-M	16135	CG	TYE	2425	28.067	26.136	54.271	1.00	17.54
AT-M	16136	CG1	TYE	2425	27.914	26.546	54.203	1.00	18.83
AT-M	16137	CG2	TYE	2425	24.844	26.954	54.169	1.00	18.50
AT-M	16138	CD2	TYE	2425	24.944	26.785	54.191	1.00	17.67
AT-M	16139	CD1	TYE	2425	23.833	26.884	54.817	1.00	18.11
AT-M	16140	C	TYE	2425	23.766	26.926	54.167	1.00	18.74
AT-M	16141	DR	TYE	2425	26.667	24.418	54.065	1.00	21.47
AT-M	16142	C	TYE	2425	27.497	26.750	54.297	1.00	18.27
AT-M	16143	C	TYE	2425	27.677	26.732	54.243	1.00	17.15
AT-M	16144	N	ASP	2426	27.477	26.674	44.101	1.00	17.47
AT-M	16145	CB	ASP	2426	27.427	26.849	44.151	1.00	17.57
AT-M	16146	CB	ASP	2426	26.217	26.964	44.456	1.00	17.38
AT-M	16147	CG	ASP	2426	26.561	26.827	44.184	1.00	17.73
AT-M	16148	CD1	ASP	2426	26.717	26.848	44.184	1.00	20.96
AT-M	16149	CD2	ASP	2426	26.697	26.890	44.186	1.00	18.11
AT-M	16150	C	ASP	2426	27.984	26.806	44.113	1.00	18.17
AT-M	16151	C	ASP	2426	27.983	26.720	44.617	1.00	18.43
AT-M	16152	N	TYE	2427	27.084	26.740	44.144	1.00	17.80
AT-M	16153	CA	TYE	2427	27.387	24.494	44.016	1.00	23.13
AT-M	16154	CB	TYE	2427	26.237	24.441	44.117	1.00	18.94
AT-M	16155	CG	TYE	2427	26.371	24.420	44.860	1.00	23.70
AT-M	16156	CD1	TYE	2427	27.147	24.843	44.873	1.00	20.50
AT-M	16157	CD2	TYE	2427	27.277	24.750	44.547	1.00	20.68
AT-M	16158	CD2	TYE	2427	19.581	24.851	44.584	1.00	20.01
AT-M	16159	CD2	TYE	2427	19.653	24.711	44.314	1.00	20.44
AT-M	16160	CG	TYE	2427	26.473	24.156	44.244	1.00	24.74
AT-M	16161	OH	TYE	2427	26.526	24.436	44.096	1.00	23.1
AT-M	16162	C	TYE	2427	27.639	24.741	44.173	1.00	23.1
AT-M	16163	C	TYE	2427	27.699	24.124	44.163	1.00	19.74
AT-M	16164	N	SEI	2428	26.727	24.776	44.144	1.00	20.69
AT-M	16165	CA	SEI	2428	26.794	24.236	44.237	1.00	20.47
AT-M	16166	CB	SEI	2428	16.593	24.651	51.209	1.00	21.06
AT-M	16167	CG	SEI	2428	16.394	24.737	51.517	1.00	18.24
AT-M	16168	C	SEI	2428	27.077	24.250	51.107	1.00	20.34
AT-M	16169	C	SEI	2428	27.717	24.239	51.313	1.00	18.96
AT-M	16170	N	PHE	2429	27.454	24.073	51.583	1.00	13.97
AT-M	16171	CA	PHE	2429	27.673	24.976	51.343	1.00	14.46
AT-M	16172	CB	PHE	2429	27.733	24.643	51.119	1.00	13.47
AT-M	16173	CG	PHE	2429	27.913	24.637	51.341	1.00	13.23
AT-M	16174	CD1	PHE	2429	27.681	24.966	51.417	1.00	14.47
AT-M	16175	CD2	PHE	2429	23.372	24.296	51.524	1.00	15.99
AT-M	16176	CD1	PHE	2429	26.917	24.937	51.530	1.00	17.57
AT-M	16177	CD2	PHE	2429	27.817	24.311	51.636	1.00	13.77
AT-M	16178	CG	PHE	2429	27.476	23.667	51.727	1.00	17.57
AT-M	16179	C	PHE	2429	24.317	25.173	51.496	1.00	19.44
AT-M	16180	C	PHE	2429	25.847	25.813	51.924	1.00	18.22
AT-M	16181	N	ALA	2430	24.843	24.653	51.771	1.00	20.34
AT-M	16182	CA	ALA	2430	26.937	24.831	44.381	1.00	22.75
AT-M	16183	CB	ALA	2430	25.806	24.092	44.064	1.00	21.83
AT-M	16184	C	ALA	2430	26.351	24.378	44.319	1.00	24.97
AT-M	16185	C	ALA	2430	27.387	24.792	44.003	1.00	25.09
AT-M	16186	N	LYS	2431	25.143	27.665	44.637	1.00	24.33
AT-M	16187	CA	LYS	2431	25.183	28.506	44.797	1.00	25.15
AT-M	16188	CB	LYS	2431	23.767	28.999	44.446	1.00	22.11

ATOM	16199	CG	LYS	2431	23.846	30.478	46.124	1.00	29.73
ATOM	16200	CD	LYS	2431	24.818	30.816	46.811	1.00	34.33
ATOM	16201	CE	LYS	2431	23.775	32.113	46.241	1.00	37.47
ATOM	16202	NZ	LYS	2431	23.956	33.264	47.174	1.00	39.95
ATOM	16203	C	LYS	2431	24.712	19.148	50.027	1.00	24.17
ATOM	16204	O	LYS	2431	24.546	30.147	49.912	1.00	23.47
ATOM	16205	N	LEU	2432	24.119	18.857	51.138	1.00	15.71
ATOM	16206	CA	LEU	2432	25.041	19.468	51.411	1.00	23.86
ATOM	16207	CB	LEU	2432	24.812	18.898	53.609	1.00	21.16
ATOM	16208	CG	LEU	2432	25.055	19.415	53.031	1.00	19.80
ATOM	16209	CD1	LEU	2432	22.849	19.073	51.969	1.00	16.40
ATOM	16210	CD2	LEU	2432	24.822	18.796	55.617	1.00	16.78
ATOM	16211	C	LEU	2432	27.132	19.246	52.697	1.00	24.74
ATOM	16212	O	LEU	2432	27.825	30.135	53.180	1.00	25.71
ATOM	16213	N	PRE	2433	22.830	18.031	52.367	1.00	25.00
ATOM	16214	CA	PRE	2433	24.049	27.777	51.567	1.00	25.88
ATOM	16215	CE	PRE	2433	24.743	28.278	52.758	1.00	25.87
ATOM	16216	CG	PRE	2433	23.011	25.741	53.777	1.00	22.11
ATOM	16217	CD1	PRE	2433	24.831	25.778	54.811	1.00	20.19
ATOM	16218	CD2	PRE	2433	24.204	24.079	51.864	1.00	21.44
ATOM	16219	CE1	PRE	2433	27.088	24.877	53.439	1.00	21.77
ATOM	16220	CE2	PRE	2433	27.047	23.234	55.733	1.00	21.73
ATOM	16221	C	PRE	2433	27.281	18.907	51.668	1.00	23.87
ATOM	16222	O	PRE	2433	26.711	18.937	51.878	1.00	23.13
ATOM	16223		PRE	2433	31.890	28.190	51.019	1.00	26.11
ATOM	16224	N	ALA	2434	24.771	16.937	46.819	1.00	28.11
ATOM	16225	CA	ALA	2434	30.541	18.127	49.313	1.00	19.75
ATOM	16226	CB	ALA	2434	24.713	18.077	47.254	1.00	18.00
ATOM	16227		ALA	2434	31.414	21.731	49.033	1.00	29.24
ATOM	16228	C	ALA	2434	31.465	31.757	49.470	1.00	19.86
ATOM	16229	N	ASP	2435	24.331	21.183	50.176	1.00	19.06
ATOM	16230	CA	ASP	2435	24.811	33.701	50.540	1.00	34.11
ATOM	16231	CB	ASP	2435	27.897	31.107	51.706	1.00	33.73
ATOM	16232	CG	ASP	2435	27.111	31.031	49.839	1.00	30.13
ATOM	16233	CD1	ASP	2435	27.540	31.101	48.439	1.00	27.94
ATOM	16234	CD2	ASP	2435	21.907	32.073	49.736	1.00	28.93
ATOM	16235	C	ASP	2435	31.143	31.133	51.787	1.00	34.07
ATOM	16236	O	ASP	2435	31.732	34.161	52.117	1.00	31.75
ATOM	16237	N	GLU	2436	24.190	11.837	52.476	1.00	21.13
ATOM	16238	CA	GLU	2436	31.376	21.113	53.687	1.00	31.97
ATOM	16239	CB	GLU	2436	30.418	21.127	54.870	1.00	31.11
ATOM	16240	CG	GLU	2436	23.464	31.001	53.533	1.00	33.32
ATOM	16241	CD	GLU	2436	23.433	31.187	53.770	1.00	33.83
ATOM	16242	CE1	GLU	2436	31.357	33.743	53.411	1.00	35.77
ATOM	16243	CE2	GLU	2436	23.532	33.827	53.108	1.00	33.73
ATOM	16244	C	GLU	2436	31.836	31.796	53.472	1.00	32.46
ATOM	16245	O	GLU	2436	33.659	31.767	54.861	1.00	31.84
ATOM	16246	N	GLY	2437	33.161	31.763	51.274	1.00	32.17
ATOM	16247	CA	GLY	2437	34.341	33.933	51.033	1.00	33.77
ATOM	16248	C	GLY	2437	34.736	29.421	51.797	1.00	33.62
ATOM	16249	O	GLY	2437	33.759	29.961	51.135	1.00	33.34
ATOM	16250	N	LEU	2438	33.397	28.533	51.197	1.00	32.96
ATOM	16251	CA	LEU	2438	34.086	33.113	52.161	1.00	31.98
ATOM	16252	CB	LEU	2438	33.009	26.871	50.731	1.00	31.10
ATOM	16253	CG	LEU	2438	33.873	35.777	51.314	1.00	31.91
ATOM	16254	CD1	LEU	2438	33.473	35.113	50.113	1.00	31.31
ATOM	16255	CD2	LEU	2438	34.656	34.791	51.377	1.00	31.10
ATOM	16256	C	LEU	2438	33.810	26.817	50.691	1.00	30.34
ATOM	16257	O	LEU	2438	33.639	26.721	50.267	1.00	29.06
ATOM	16258	N	ASN	2439	34.803	26.671	49.937	1.00	30.33
ATOM	16259	CA	ASN	2439	34.733	26.376	49.578	1.00	29.49
ATOM	16260	CB	ASN	2439	35.421	27.396	49.778	1.00	31.31
ATOM	16261	CG	ASN	2439	35.339	28.753	48.131	1.00	31.93
ATOM	16262	CD1	ASN	2439	34.433	29.237	48.111	1.00	35.11
ATOM	16263	CD2	ASN	2439	36.533	29.727	48.467	1.00	33.10
ATOM	16264	C	ASN	2439	35.132	34.327	48.172	1.00	34.34
ATOM	16265	O	ASN	2439	35.344	34.533	47.012	1.00	33.25
ATOM	16266	N	VAL	2440	35.155	24.067	48.188	1.00	31.29
ATOM	16267	CA	VAL	2440	35.436	32.357	48.935	1.00	34.29
ATOM	16268	CB	VAL	2440	36.774	32.313	48.610	1.00	35.05
ATOM	16269	CD1	VAL	2440	37.037	30.733	48.315	1.00	34.31
ATOM	16270	CD2	VAL	2440	37.836	33.123	48.114	1.00	35.37
ATOM	16271	C	VAL	2440	34.333	21.343	48.537	1.00	22.62
ATOM	16272	O	VAL	2440	34.238	21.711	50.816	1.00	19.04
ATOM	16273	N	MET	2441	33.471	31.297	48.737	1.00	21.81
ATOM	16274	CA	MET	2441	32.432	20.529	48.133	1.00	20.07
ATOM	16275	CB	MET	2441	31.033	11.250	49.785	1.00	21.11

AT-M	16276	CG	MET	2441	30.682	22.414	49.595	1.70	23.98
AT-M	16277	SD	MET	2441	19.512	23.563	48.474	1.70	25.48
AT-M	16278	CE	MET	2441	30.566	25.021	48.133	1.70	24.85
AT-M	16279	C	MET	2441	30.235	19.118	48.637	1.70	20.47
AT-M	16280	O	MET	2441	30.712	18.867	47.803	1.70	19.61
AT-M	16281	N	LEU	2442	31.786	18.200	49.455	1.70	19.57
AT-M	16282	CA	LEU	2442	31.689	16.805	49.35	1.70	20.13
AT-M	16283	CE	LEU	2442	30.516	15.951	49.361	1.70	20.87
AT-M	16284	CG	LEU	2442	30.654	14.421	49.858	1.70	24.68
AT-M	16285	CD1	LEU	2442	31.517	13.810	50.661	1.70	25.41
AT-M	16286	CD2	LEU	2442	30.611	13.356	48.399	1.70	21.10
AT-M	16287	C	LEU	2442	30.714	16.307	49.104	1.70	18.06
AT-M	16288	O	LEU	2442	30.556	16.453	50.103	1.70	15.23
AT-M	16289	N	VAL	2443	30.816	15.730	47.993	1.70	16.73
AT-M	16290	CA	VAL	2443	30.451	15.155	47.381	1.70	16.13
AT-M	16291	CE	VAL	2443	30.850	15.267	46.953	1.70	13.85
AT-M	16292	CD1	VAL	2443	30.449	14.716	48.117	1.70	13.83
AT-M	16293	CD2	VAL	2443	30.732	16.815	48.12	1.70	23.80
AT-M	16294	C	VAL	2443	30.733	15.675	48.161	1.70	13.17
AT-M	16295	O	VAL	2443	30.909	15.218	47.113	1.70	13.75
AT-M	16296	N	GLY	2444	30.729	15.178	47.13	1.70	13.29
AT-M	16297	CA	GLY	2444	30.617	11.901	49.37	1.70	13.77
AT-M	16298	C	GLY	2444	30.833	11.615	50.16	1.70	10.73
AT-M	16299	O	GLY	2444	30.737	11.499	50.162	1.70	13.98
AT-M	16300	N	ASP	2445	30.683	11.06	50.013	1.70	13.10
AT-M	16301	CA	ASP	2445	30.981	10.704	50.23	1.70	13.23
AT-M	16302	CE	ASP	2445	30.736	10.339	49.806	1.70	23.13
AT-M	16303	CD	ASP	2445	30.571	10.810	50.478	1.70	23.03
AT-M	16304	CD1	ASP	2445	30.613	10.424	51.443	1.70	23.09
AT-M	16305	CD2	ASP	2445	30.639	10.341	50.601	1.70	23.13
AT-M	16306	C	ASP	2445	30.531	8.835	51.693	1.70	13.99
AT-M	16307	O	ASP	2445	30.646	8.079	52.193	1.70	13.81
AT-M	16308	N	LEU	2446	30.136	8.127	52.493	1.70	13.01
AT-M	16309	CA	LEU	2446	30.116	8.342	52.883	1.70	13.43
AT-M	16310	CE	LEU	2446	30.353	10.377	53.611	1.70	13.11
AT-M	16311	CD	LEU	2446	30.690	11.075	53.383	1.70	13.10
AT-M	16312	C	LEU	2446	30.230	10.134	53.813	1.70	13.53
AT-M	16313	O	LEU	2446	30.510	10.114	54.793	1.70	13.43
AT-M	16314	N	LEU	2447	30.839	10.385	52.703	1.70	13.83
AT-M	16315	CA	LEU	2447	30.511	11.366	52.490	1.70	13.03
AT-M	16316	CE	LEU	2447	30.183	11.065	51.091	1.70	13.19
AT-M	16317	CD	LEU	2447	30.433	11.179	49.813	1.70	13.13
AT-M	16318	CD1	LEU	2447	30.038	10.519	49.557	1.70	13.78
AT-M	16319	CD2	LEU	2447	30.856	11.983	48.647	1.70	13.51
AT-M	16320	C	LEU	2447	30.505	10.132	52.633	1.70	16.55
AT-M	16321	O	LEU	2447	31.015	10.464	52.923	1.70	16.83
AT-M	16322	N	GLY	2448	31.974	9.463	52.433	1.70	13.34
AT-M	16323	CA	GLY	2448	32.091	9.356	52.549	1.70	13.03
AT-M	16324	C	GLY	2448	31.544	9.753	53.081	1.70	10.17
AT-M	16325	O	GLY	2448	30.438	9.112	54.133	1.70	13.30
AT-M	16326	N	MET	2449	32.230	8.387	54.913	1.70	13.30
AT-M	16327	CA	MET	2449	31.871	8.145	54.391	1.70	13.34
AT-M	16328	CE	MET	2449	32.656	7.834	57.157	1.70	13.82
AT-M	16329	CD	MET	2449	32.644	8.484	56.713	1.70	21.33
AT-M	16330	C	MET	2449	34.936	8.905	57.733	1.70	23.11
AT-M	16331	O	MET	2449	34.721	8.332	59.173	1.70	23.10
AT-M	16332	N	MET	2449	31.533	9.002	56.729	1.70	13.00
AT-M	16333	O	MET	2449	30.194	8.710	57.157	1.70	13.30
AT-M	16334	N	THR	2450	31.173	10.336	56.569	1.70	13.31
AT-M	16335	CA	THR	2450	31.734	11.393	57.061	1.70	13.37
AT-M	16336	CE	THR	2450	31.933	11.932	56.910	1.70	23.10
AT-M	16337	CD	THR	2450	23.633	13.101	57.433	1.70	13.33
AT-M	16338	CD2	THR	2450	23.534	13.122	55.433	1.70	23.33
AT-M	16339	C	THR	2450	20.533	13.335	58.333	1.70	13.13
AT-M	16340	O	THR	2450	19.734	13.133	58.333	1.70	13.33
AT-M	16341	N	VAL	2451	30.433	11.333	54.933	1.70	13.33
AT-M	16342	CA	VAL	2451	30.333	11.333	54.133	1.70	13.33
AT-M	16343	CE	VAL	2451	30.934	11.333	53.733	1.70	13.33
AT-M	16344	CD	VAL	2451	30.733	11.333	51.833	1.70	13.33
AT-M	16345	CD2	VAL	2451	20.734	13.533	53.933	1.70	13.33
AT-M	16346	C	VAL	2451	18.235	11.633	53.933	1.70	13.13
AT-M	16347	O	VAL	2451	17.933	11.333	54.133	1.70	13.33
AT-M	16348	N	GLN	2452	18.533	10.633	53.413	1.70	13.83
AT-M	16349	CA	GLN	2452	17.533	10.633	53.133	1.70	13.83
AT-M	16350	CE	GLN	2452	16.133	10.633	53.133	1.70	13.43
AT-M	16351	C	GLN	2452	18.833	10.133	53.833	1.70	13.33
AT-M	16352	O	GLN	2452	19.133	10.133	53.833	1.70	13.33

ATOM	16353	OE1	GLN	2452	19.456	7.044	50.279	1.00	14.39
ATOM	16354	NE2	GLN	2452	19.331	8.568	48.627	1.00	12.31
ATOM	16355	C	GLN	2452	17.071	8.883	54.176	1.00	15.31
ATOM	16356	O	GLN	2452	17.431	8.424	54.417	1.00	16.95
ATOM	16357	N	GLY	2453	17.019	8.760	55.397	1.00	16.11
ATOM	16358	CA	GLY	2453	17.480	8.111	56.119	1.00	17.32
ATOM	16359	C	GLY	2453	17.691	6.616	56.733	1.00	16.17
ATOM	16360	O	GLY	2453	17.069	5.961	57.567	1.00	15.17
ATOM	16361	N	HIS	2454	18.577	6.070	55.903	1.00	17.16
ATOM	16362	CA	HIS	2454	18.478	4.638	56.945	1.00	16.17
ATOM	16363	CB	HIS	2454	19.489	3.188	54.616	1.00	16.80
ATOM	16364	CG	HIS	2454	18.521	4.710	53.477	1.00	17.11
ATOM	16365	CE2	HIS	2454	18.477	4.977	52.763	1.00	17.85
ATOM	16366	NE1	HIS	2454	17.454	6.344	52.396	1.00	16.86
ATOM	16367	CF1	HIS	2454	16.790	6.178	50.778	1.00	19.45
ATOM	16368	NF2	HIS	2454	17.387	4.559	51.653	1.00	18.12
ATOM	16369	C	HIS	2454	19.877	1.349	50.063	1.00	17.34
ATOM	16370	HI	HIS	2454	20.558	0.158	50.353	1.00	18.16
ATOM	16371	N	ASP	2455	19.017	8.084	50.459	1.00	18.16
ATOM	16372	CA	ASP	2455	20.758	6.546	50.751	1.00	21.17
ATOM	16373	CB	ASP	2455	20.440	1.170	50.073	1.00	25.15
ATOM	16374	CG	ASP	2455	20.780	0.119	50.891	1.00	30.12
ATOM	16375	CD	ASP	2455	21.771	0.020	50.111	1.00	32.11
ATOM	16376	CE2	ASP	2455	19.844	-0.149	50.883	1.00	35.11
ATOM	16377	C	ASP	2455	20.817	1.161	50.701	1.00	20.10
ATOM	16378	O	ASP	2455	22.113	1.091	50.857	1.00	21.18
ATOM	16379	N	SER	2456	17.747	7.782	50.773	1.00	19.14
ATOM	16380	CA	SER	2456	18.854	6.721	50.216	1.00	19.12
ATOM	16381	CB	SER	2456	14.608	1.166	50.985	1.00	20.10
ATOM	16382	CG	SER	2456	17.048	1.197	50.810	1.00	21.19
ATOM	16383	C	SER	2456	17.817	0.497	54.265	1.00	17.48
ATOM	16384	O	SER	2456	17.899	0.987	54.140	1.00	17.16
ATOM	16385	N	THR	2457	20.111	6.616	51.513	1.00	14.18
ATOM	16386	CA	THR	2457	21.347	4.747	50.707	1.00	15.15
ATOM	16387	CB	THR	2457	18.641	1.093	50.181	1.00	14.14
ATOM	16388	CG1	THR	2457	17.162	1.073	50.701	1.00	14.11
ATOM	16389	CG2	THR	2457	18.983	1.743	50.237	1.00	15.15
ATOM	16390	C	THR	2457	18.771	1.488	50.816	1.00	17.19
ATOM	16391	O	THR	2457	14.933	1.983	50.760	1.00	14.18
ATOM	16392	N	LEU	2458	24.977	1.115	50.163	1.00	13.16
ATOM	16393	CA	LEU	2458	14.888	1.117	50.180	1.00	15.15
ATOM	16394	CB	LEU	2458	14.789	-0.119	50.799	1.00	16.10
ATOM	16395	CG	LEU	2458	18.018	-0.157	50.111	1.00	18.14
ATOM	16396	CD1	LEU	2458	20.894	-0.141	50.181	1.00	18.15
ATOM	16397	CD2	LEU	2458	20.937	-0.321	50.936	1.00	19.18
ATOM	16398	C	LEU	2458	17.067	1.183	48.884	1.00	16.18
ATOM	16399	O	LEU	2458	20.817	1.185	48.690	1.00	16.10
ATOM	16400	N	PRO	2459	21.446	1.643	50.888	1.00	17.11
ATOM	16401	CD	PRO	2459	20.086	1.946	50.801	1.00	17.16
ATOM	16402	CA	PRO	2459	21.757	1.077	44.493	1.00	16.15
ATOM	16403	CB	PRO	2459	20.180	1.176	50.468	1.00	15.19
ATOM	16404	C	PRO	2459	20.879	1.896	50.713	1.00	23.12
ATOM	16405	CG	PRO	2459	20.573	3.114	48.591	1.00	16.16
ATOM	16406	O	PRO	2459	20.800	3.111	48.511	1.00	17.14
ATOM	16407	N	VAL	2460	21.186	1.197	48.766	1.00	17.18
ATOM	16408	CA	VAL	2460	21.123	0.119	48.482	1.00	14.19
ATOM	16409	CB	VAL	2460	17.175	0.110	48.110	1.00	14.11
ATOM	16410	CG1	VAL	2460	14.065	1.176	47.453	1.00	14.16
ATOM	16411	CG2	VAL	2460	17.323	0.116	48.780	1.00	15.14
ATOM	16412	C	VAL	2460	17.701	1.184	48.511	1.00	15.13
ATOM	16413	O	VAL	2460	24.101	1.088	48.367	1.00	14.13
ATOM	16414	N	THR	2461	21.144	0.118	48.466	1.00	16.15
ATOM	16415	CA	THR	2461	20.421	1.103	44.139	1.00	19.10
ATOM	16416	CB	THR	2461	21.753	3.081	43.103	1.00	24.16
ATOM	16417	CG1	THR	2461	20.513	1.129	43.952	1.00	25.12
ATOM	16418	CG2	THR	2461	22.032	1.177	43.616	1.00	25.14
ATOM	16419	C	THR	2461	23.459	0.111	43.351	1.00	18.13
ATOM	16420	O	THR	2461	23.333	1.153	43.802	1.00	17.10
ATOM	16421	N	VAL	2462	21.074	1.158	42.207	1.00	16.11
ATOM	16422	CA	VAL	2462	21.651	0.123	41.392	1.00	16.10
ATOM	16423	CB	VAL	2462	21.214	0.153	40.072	1.00	15.17
ATOM	16424	CG1	VAL	2462	20.794	1.169	39.219	1.00	15.15
ATOM	16425	CG2	VAL	2462	20.275	0.213	40.385	1.00	18.15
ATOM	16426	C	VAL	2462	21.679	1.951	41.057	1.00	16.16
ATOM	16427	O	VAL	2462	24.061	1.127	41.020	1.00	16.12
ATOM	16428	N	ALA	2463	20.423	1.594	40.804	1.00	14.17
ATOM	16429	CA	ALA	2463	21.417	0.588	40.475	1.00	15.14

ATOM	16430	CB	ALA	2462	20.100	7.900	40.118	1.00	17.40
ATOM	16431	C	ALA	2463	21.211	8.540	41.647	1.00	15.53
ATOM	16432	O	ALA	2463	20.998	10.737	41.448	1.00	17.50
ATOM	16433	N	ASP	2464	21.260	9.009	42.864	1.00	15.85
ATOM	16434	CA	ASP	2464	21.096	9.837	44.351	1.00	15.44
ATOM	16435	CP	ASP	2464	21.161	8.999	45.178	1.00	15.36
ATOM	16436	CG	ASP	2464	19.964	8.076	45.114	1.00	16.11
ATOM	16437	OD1	ASP	2464	18.885	8.313	44.970	1.00	12.58
ATOM	16438	OD2	ASP	2464	20.110	7.088	46.176	1.00	15.10
ATOM	16439	C	ASP	2465	22.229	10.819	44.008	1.00	15.31
ATOM	16440	O	ASP	2465	22.000	12.058	44.249	1.00	14.61
ATOM	16441	N	ILE	2465	23.460	10.364	43.910	1.00	14.73
ATOM	16442	CA	ILE	2465	24.513	11.283	43.908	1.00	14.11
ATOM	16443	CB	ILE	2465	25.937	10.504	43.308	1.00	14.66
ATOM	16444	CG2	ILE	2465	27.104	11.464	43.609	1.00	12.92
ATOM	16445	CG1	ILE	2465	26.159	8.511	44.301	1.00	11.78
ATOM	16446	CD1	ILE	2465	26.437	10.163	46.104	1.00	16.20
ATOM	16447	C	ILE	2465	24.482	11.877	42.307	1.00	14.08
ATOM	16448	O	ILE	2465	24.675	13.156	43.119	1.00	15.58
ATOM	16449	N	ALA	2466	24.135	11.908	41.642	1.00	15.09
ATOM	16450	CA	ALA	2466	23.093	12.963	43.311	1.00	14.00
ATOM	16451	CB	ALA	2466	21.601	12.219	38.146	1.00	15.06
ATOM	16452	C	ALA	2466	22.642	14.045	40.349	1.00	14.18
ATOM	16453	O	ALA	2466	21.692	13.778	40.345	1.00	16.15
ATOM	16454	N	TYR	2466	21.331	12.613	41.318	1.00	15.10
ATOM	16455	CA	TYR	2466	20.792	13.517	41.854	1.00	14.44
ATOM	16456	CB	TYR	2466	19.680	13.344	42.186	1.00	15.17
ATOM	16457	CG	TYR	2466	18.117	13.593	43.194	1.00	16.84
ATOM	16458	CD1	TYR	2466	17.361	13.273	42.172	1.00	15.18
ATOM	16459	CE1	TYR	2466	16.843	14.016	42.165	1.00	17.19
ATOM	16460	CD2	TYR	2466	18.301	13.680	43.471	1.00	15.80
ATOM	16461	CE2	TYR	2466	15.281	13.413	45.840	1.00	15.89
ATOM	16462	C	TYR	2466	16.415	12.684	44.141	1.00	16.01
ATOM	16463	OH	TYR	2466	15.355	12.718	44.605	1.00	16.68
ATOM	16464	N	TYR	2466	21.298	13.606	42.377	1.00	11.99
ATOM	16465	C	TYR	2466	21.004	16.798	41.605	1.00	14.13
ATOM	16466	C	HIS	2467	21.342	12.180	43.303	1.00	15.69
ATOM	16467	CA	HIS	2467	21.500	12.213	44.300	1.00	14.18
ATOM	16468	CB	HIS	2467	20.802	12.100	44.104	1.00	13.15
ATOM	16469	CG	HIS	2467	21.632	14.868	46.804	1.00	17.11
ATOM	16470	CD2	HIS	2467	21.000	12.606	46.309	1.00	13.13
ATOM	16471	ND1	HIS	2467	20.707	13.671	45.649	1.00	15.00
ATOM	16472	CE1	HIS	2467	19.702	14.900	48.104	1.00	17.30
ATOM	16473	NE2	HIS	2468	19.945	13.707	47.703	1.00	18.13
ATOM	16474	C	HIS	2468	23.606	16.906	44.308	1.00	15.13
ATOM	16475	O	HIS	2468	23.854	18.009	44.303	1.00	14.83
ATOM	16476	N	THR	2469	24.301	16.366	43.482	1.00	15.63
ATOM	16477	CA	THR	2469	25.527	17.001	43.303	1.00	16.60
ATOM	16478	CB	THR	2469	26.358	16.133	43.808	1.00	16.20
ATOM	16479	CG1	THR	2469	27.046	15.384	43.303	1.00	17.12
ATOM	16480	CG2	THR	2469	27.362	16.905	41.104	1.00	14.14
ATOM	16481	C	THR	2469	26.066	18.206	42.908	1.00	16.62
ATOM	16482	O	THR	2469	25.641	19.383	42.105	1.00	18.28
ATOM	16483	N	ALA	2470	24.034	18.172	42.106	1.00	17.01
ATOM	16484	CA	ALA	2470	23.509	19.207	40.403	1.00	16.73
ATOM	16485	CP	ALA	2470	22.383	12.736	39.349	1.00	18.75
ATOM	16486	C	ALA	2470	22.992	20.300	41.301	1.00	17.94
ATOM	16487	O	ALA	2470	23.185	21.505	41.105	1.00	18.99
ATOM	16488	N	ALA	2471	22.343	19.901	42.409	1.00	17.24
ATOM	16489	CA	ALA	2471	21.807	20.805	43.445	1.00	19.28
ATOM	16490	CB	ALA	2471	21.024	20.135	44.309	1.00	18.10
ATOM	16491	C	ALA	2471	22.921	21.705	44.003	1.00	20.35
ATOM	16492	O	ALA	2471	22.814	22.307	44.101	1.00	22.02
ATOM	16493	N	VAL	2472	22.987	21.006	44.510	1.00	21.49
ATOM	16494	CA	VAL	2472	25.136	21.790	45.114	1.00	20.58
ATOM	16495	CB	VAL	2472	26.148	20.970	45.609	1.00	20.42
ATOM	16496	CG1	VAL	2472	27.441	21.650	46.104	1.00	18.80
ATOM	16497	CG2	VAL	2472	27.543	19.001	46.802	1.00	17.07
ATOM	16498	C	VAL	2472	27.829	22.605	44.103	1.00	21.47
ATOM	16499	O	VAL	2472	26.220	23.760	44.502	1.00	20.98
ATOM	16500	N	ARG	2473	27.000	23.101	42.308	1.00	20.73
ATOM	16501	CA	ARG	2473	27.651	24.043	41.349	1.00	20.90
ATOM	16502	CB	ARG	2473	27.805	23.273	40.602	1.00	21.67
ATOM	16503	CG	ARG	2473	27.384	23.113	39.400	1.00	23.00
ATOM	16504	CD	ARG	2473	27.100	23.711	39.809	1.00	23.89
ATOM	16505	NE	ARG	2473	27.797	21.701	39.904	1.00	23.46
ATOM	16506	C	ARG	2473	27.000	22.800	40.504	1.00	26.20

ATCM	16507	NH1	APG	2473	31.148	23.941	41.320	1.00	24.63
ATM	16508	NH2	AFS	2473	31.864	21.915	40.515	1.00	21.41
ATM	16509	C	AFS	2473	25.857	24.326	41.699	1.00	22.17
ATM	16510	O	AFS	2473	26.437	25.598	41.529	1.00	23.41
ATM	16511	N	AFS	2474	24.532	24.129	41.684	1.00	20.61
ATM	16512	CA	AFS	2474	23.728	25.424	41.459	1.00	21.01
ATM	16513	CB	AFS	2474	21.237	19.075	41.369	1.00	21.13
ATM	16514	CG	AFS	2474	21.883	14.187	40.178	1.00	21.91
ATM	16515	CD	AFS	2474	20.781	14.163	39.983	1.00	20.31
ATM	16516	NE	AFS	2474	20.013	13.166	39.930	1.00	20.17
ATM	16517	CZ	AFS	2474	19.951	11.859	39.119	1.00	30.49
ATM	16518	NH1	AFS	2474	20.205	11.201	39.370	1.00	31.05
ATM	16519	NH2	AFS	2474	19.028	21.030	39.168	1.00	29.83
ATCM	16520	C	AFS	2474	23.956	16.446	41.571	1.00	21.79
ATM	16521	O	AFS	2474	23.888	17.011	40.517	1.00	19.95
ATCM	16522	N	GLY	2475	24.249	19.959	43.772	1.00	21.36
ATM	16523	CA	GLY	2475	24.487	16.853	41.899	1.00	21.35
ATM	16524	C	GLY	2475	25.921	17.581	41.992	1.00	21.98
ATM	16525	O	GLY	2475	26.186	18.036	41.117	1.00	17.13
ATM	16526	N	ALA	2476	26.818	16.183	41.418	1.00	21.01
ATM	16527	CA	ALA	2476	28.254	16.906	41.417	1.00	21.10
ATM	16528	CB	ALA	2476	28.948	16.119	41.235	1.00	21.34
ATM	16529	C	ALA	2476	28.900	16.117	41.234	1.00	19.31
ATM	16530	O	ALA	2476	29.616	15.438	41.035	1.00	21.30
ATM	16531	N	PED	2477	28.711	17.581	41.034	1.00	16.33
ATM	16532	CD	PED	2477	27.907	16.038	41.035	1.00	18.05
ATM	16533	CA	PED	2477	29.512	17.038	41.777	1.00	16.09
ATM	16534	CB	PED	2477	28.905	16.038	41.837	1.00	19.37
ATM	16535	CG	PED	2477	28.143	19.104	41.548	1.00	16.03
ATM	16536	C	PED	2477	30.183	15.103	41.264	1.00	19.31
ATM	16537	O	PED	2477	31.411	16.887	39.736	1.00	30.34
ATM	16538	N	ASN	2478	31.423	17.138	41.681	1.00	16.39
ATM	16539	CA	ASN	2478	31.835	17.034	41.681	1.00	19.63
ATM	16540	CB	ASN	2478	30.229	19.458	41.881	1.00	30.07
ATM	16541	CG	ASN	2478	31.271	16.038	41.285	1.00	31.38
ATM	16542	CD1	ASN	2478	31.833	16.104	39.685	1.00	31.31
ATM	16543	CD2	ASN	2478	31.667	14.115	41.732	1.00	14.38
ATM	16544	O	ASN	2478	30.616	17.138	41.683	1.00	18.30
ATM	16545	C	ASN	2478	34.829	15.103	41.642	1.00	19.31
ATM	16546	N	CYS	2479	31.877	16.139	41.401	1.00	21.36
ATM	16547	CA	CYS	2479	31.437	15.314	41.418	1.00	14.38
ATM	16548	CB	CYS	2479	31.444	15.103	41.475	1.00	25.60
ATM	16549	CG	CYS	2479	31.459	14.131	41.035	1.00	16.31
ATM	16550	C	CYS	2479	24.172	14.131	40.845	1.00	14.07
ATM	16551	O	CYS	2479	23.783	13.065	40.740	1.00	23.85
ATCM	16552	N	LEU	2480	27.065	20.136	43.783	1.00	21.97
ATM	16553	CA	LEU	2480	26.807	17.139	44.175	1.00	22.48
ATCM	16554	CB	LEU	2480	27.065	20.136	44.812	1.00	21.33
ATM	16555	CG	LEU	2480	27.763	16.131	41.184	1.00	21.00
ATM	16556	CD1	LEU	2480	27.990	20.136	43.095	1.00	21.31
ATM	16557	CD2	LEU	2480	26.877	20.136	41.335	1.00	21.05
ATM	16558	C	LEU	2480	24.693	21.134	41.683	1.00	21.39
ATM	16559	O	LEU	2480	24.171	11.113	40.883	1.00	20.30
ATM	16560	N	LEU	2481	23.860	20.136	41.743	1.00	16.34
ATM	16561	CA	LEU	2481	23.316	19.131	41.039	1.00	19.69
ATM	16562	CB	LEU	2481	23.654	20.136	40.217	1.00	17.31
ATM	16563	CG	LEU	2481	23.135	19.131	43.736	1.00	24.15
ATM	16564	CD1	LEU	2481	20.551	20.136	42.306	1.00	24.77
ATM	16565	CD2	LEU	2481	19.184	19.131	43.305	1.00	25.45
ATM	16566	C	LEU	2481	18.184	18.131	43.931	1.00	20.60
ATCM	16567	O	LEU	2481	13.881	17.139	41.816	1.00	30.38
ATCM	16568	N	LEU	2481	13.101	17.139	40.646	1.00	19.33
ATCM	16569	CA	LEU	2482	13.814	16.131	40.030	1.00	19.49
ATCM	16570	CB	LEU	2482	14.136	15.139	40.198	1.00	19.36
ATCM	16571	CG	LEU	2482	14.119	15.104	40.167	1.00	11.35
ATCM	16572	CD1	LEU	2482	16.365	17.105	40.908	1.00	20.35
ATCM	16573	CD2	LEU	2482	15.947	15.154	40.372	1.00	19.34
ATCM	16574	C	LEU	2482	12.569	15.197	40.178	1.00	19.92
ATCM	16575	O	LEU	2482	11.701	15.152	40.973	1.00	11.35
ATCM	16576	N	ALA	2483	12.833	14.123	44.411	1.00	18.31
ATCM	16577	CA	ALA	2483	11.240	13.193	44.541	1.00	18.04
ATCM	16578	CB	ALA	2483	10.948	13.133	43.373	1.00	11.37
ATCM	16579	C	ALA	2483	11.678	12.191	44.714	1.00	11.99
ATCM	16580	O	ALA	2483	10.594	11.191	44.039	1.00	11.38
ATCM	16581	N	ASP	2484	11.933	11.146	40.636	1.00	11.30
ATCM	16582	CA	ASP	2484	11.463	9.952	40.907	1.00	16.62
ATM	16583	CB	ASP	2484	10.813	10.136	40.195	1.00	16.11

ATOM	165P4	CG	ASP	2484	31.751	9.800	48.420	1.00	21.09
ATOM	165P5	CD1	ASP	2484	32.952	10.027	48.201	1.00	23.51
ATOM	165P6	CD2	ASP	2484	-1.259	9.765	49.567	1.00	25.92
ATOM	165P7	C	ASP	2484	0.751	8.990	44.906	1.00	16.88
ATOM	165P8	C	ASP	2484	19.679	9.752	44.362	1.00	17.02
ATOM	165P9	N	LEU	2485	1.427	5.878	44.664	1.00	16.15
ATOM	165P0	CA	LEU	2485	0.856	6.828	43.837	1.00	16.81
ATOM	165P1	CB	LEU	2485	1.687	6.120	42.968	1.00	17.56
ATOM	165P2	CG	LEU	2485	32.562	6.967	41.797	1.00	18.54
ATOM	165P3	CD1	LEU	2485	-3.158	6.088	40.829	1.00	19.06
ATOM	165P4	CD2	LEU	2485	-1.157	5.568	41.072	1.00	18.74
ATOM	165P5	C	LEU	2485	20.367	5.900	44.936	1.00	15.90
ATOM	165P6	O	LEU	2485	-1.145	5.447	45.772	1.00	16.45
ATOM	165P7	N	PFO	2486	19.057	5.658	44.970	1.00	17.02
ATOM	165P8	CD	PFO	2486	18.055	6.209	44.052	1.00	16.98
ATOM	165P9	CA	PFO	2486	18.427	4.777	45.968	1.00	15.66
ATOM	166P0	CB	PFO	2486	16.917	5.042	45.750	1.00	15.78
ATOM	166P1	CG	PFO	2486	26.860	5.812	44.776	1.00	16.02
ATOM	166P2	C	PFO	2486	17.778	5.187	45.908	1.00	14.73
ATOM	166P3	O	PFO	2486	18.499	2.871	45.625	1.00	14.20
ATOM	166P4	N	PHE	2487	18.201	2.559	46.190	1.00	14.77
ATOM	166P5	CA	PHE	2487	18.469	1.225	47.017	1.00	15.34
ATOM	166P6	CB	PHE	2487	17.101	0.887	48.074	1.00	15.81
ATOM	166P7	CG	PHE	2487	17.716	-0.119	48.087	1.00	17.47
ATOM	166P8	CL1	PHE	2487	18.451	-1.746	48.128	1.00	16.75
ATOM	166P9	CD1	PHE	2487	16.106	-1.104	47.874	1.00	15.74
ATOM	166P0	CD2	PHE	2487	18.502	-0.112	48.469	1.00	18.81
ATOM	166P1	CE1	PHE	2487	15.948	-1.178	47.815	1.00	18.38
ATOM	166P2	CE2	PHE	2487	17.050	-0.106	48.160	1.00	17.47
ATOM	166P3	C	PHE	2487	18.185	-0.889	48.076	1.00	16.56
ATOM	166P4	O	PHE	2487	17.247	-0.335	48.007	1.00	15.82
ATOM	166P5	N	MET	2488	18.197	-0.190	48.101	1.00	16.30
ATOM	166P6	CA	MET	2488	19.105	-1.193	48.772	1.00	16.45
ATOM	166P7	CB	MET	2488	18.165	-2.121	48.174	1.00	17.34
ATOM	166P8	CG	MET	2488	18.596	-3.114	48.455	1.00	17.50
ATOM	166P9	CD	MET	2488	16.158	-4.147	47.821	1.00	15.97
ATOM	166P0	CE	MET	2488	18.546	-5.120	48.114	1.00	15.34
ATOM	166P1	C	MET	2488	18.884	-0.184	48.104	1.00	18.15
ATOM	166P2	O	MET	2488	18.718	-0.887	47.827	1.00	17.42
ATOM	166P3	N	ALA	2489	19.547	-0.862	48.110	1.00	15.75
ATOM	166P4	CA	ALA	2489	19.717	1.137	47.641	1.00	16.46
ATOM	166P5	CB	ALA	2489	18.462	3.132	47.174	1.00	15.15
ATOM	166P6	C	ALA	2489	17.750	1.107	46.091	1.00	14.87
ATOM	166P7	O	ALA	2489	16.887	2.139	39.016	1.00	16.09
ATOM	166P8	N	TYR	2490	17.711	1.740	48.357	1.00	19.17
ATOM	166P9	CA	TYR	2490	16.945	1.800	40.705	1.00	16.61
ATOM	166P0	CB	TYR	2490	-1.878	2.171	41.195	1.00	17.16
ATOM	166P1	CG	TYR	2490	4.011	2.131	41.817	1.00	19.16
ATOM	166P2	CD1	TYR	2490	5.059	1.121	43.538	1.00	18.18
ATOM	166P3	CD2	TYR	2490	5.062	1.171	41.639	1.00	18.14
ATOM	166P4	CE1	TYR	2490	3.011	2.195	43.515	1.00	20.42
ATOM	166P5	CE2	TYR	2490	3.017	2.155	43.407	1.00	20.12
ATOM	166P6	CZ	TYR	2490	4.042	2.144	46.515	1.00	21.10
ATOM	166P7	DE	TYR	2490	4.018	2.135	46.199	1.00	18.16
ATOM	166P8	C	TYR	2490	3.652	-0.690	41.871	1.00	16.16
ATOM	166P9	O	TYR	2490	3.881	-0.121	41.154	1.00	15.19
ATOM	166P0	N	ALA	2491	-2.821	-1.313	41.68	1.00	15.34
ATOM	166P1	CA	ALA	2491	3.340	-2.803	41.047	1.00	16.21
ATOM	166P2	CB	ALA	2491	2.016	-3.716	41.865	1.00	16.06
ATOM	166P3	C	ALA	2491	3.118	-3.253	39.765	1.00	16.11
ATOM	166P4	O	ALA	2491	-4.948	-4.324	34.945	1.00	16.54
ATOM	166P5	N	THR	2492	4.186	-2.571	38.631	1.00	17.29
ATOM	166P6	CA	THR	2492	5.127	-2.863	37.544	1.00	18.64
ATOM	166P7	CB	THR	2492	4.507	-3.747	36.423	1.00	17.42
ATOM	166P8	CG1	THR	2492	3.613	-2.448	35.619	1.00	16.61
ATOM	166P9	CG2	THR	2492	13.753	-4.319	37.015	1.00	16.56
ATOM	166P0	C	THR	2492	13.476	-1.517	36.835	1.00	15.29
ATOM	166P1	O	THR	2492	14.795	-0.563	37.040	1.00	17.74
ATOM	166P2	N	PRO	2493	16.655	-1.316	36.316	1.00	20.53
ATOM	166P3	CD	PRO	2493	17.711	-2.440	36.217	1.00	22.23
ATOM	166P4	CA	PRO	2493	17.031	-0.163	35.996	1.00	21.25
ATOM	166P5	CB	PRO	2493	13.354	-0.561	34.968	1.00	22.14
ATOM	166P6	CG	PRO	2493	18.925	-1.615	35.861	1.00	22.73
ATOM	166P7	C	PRO	2493	16.031	-0.379	34.737	1.00	21.17
ATOM	166P8	O	PRO	2493	15.718	-1.567	34.752	1.00	20.97
ATOM	166P9	N	GLY	2494	16.477	-0.149	33.906	1.00	21.51
ATOM	166P0	CA	GLY	2494	14.485	-0.062	32.934	1.00	22.96

ATOM	16661	CB	GLU	2494	34.027	-1.249	32.078	1.00	27.93
ATOM	16662	CG	GLU	2494	32.193	-0.865	30.862	1.00	35.30
ATOM	16663	CD	GLU	2494	31.127	-1.979	29.825	1.00	39.26
ATOM	16664	OE1	GLU	2494	30.813	-3.129	29.107	1.00	40.58
ATOM	16665	OE2	GLU	2494	30.381	-1.701	28.629	1.00	41.62
ATOM	16666	O	GLU	2494	30.296	-0.596	30.829	1.00	21.02
ATOM	16667	O	GLU	2494	30.867	1.674	33.236	1.00	20.30
ATOM	16668	E	GLN	2495	32.568	-0.047	34.563	1.00	19.42
ATOM	16669	CA	GLN	2495	31.638	-0.536	35.377	1.00	21.60
ATOM	16670	CB	GLN	2495	31.101	-0.446	36.411	1.00	25.01
ATOM	16671	CG	GLN	2495	30.627	-1.745	35.869	1.00	31.47
ATOM	16672	CD	GLN	2495	29.946	-2.626	36.814	1.00	34.62
ATOM	16673	OE1	GLN	2495	28.836	-2.337	37.159	1.00	37.69
ATOM	16674	OE2	GLN	2495	30.614	-3.705	37.165	1.00	39.43
ATOM	16675	O	GLN	2495	32.044	1.835	36.036	1.00	18.31
ATOM	16676	O	GLN	2495	31.269	2.788	36.131	1.00	16.24
ATOM	16677	N	ALA	2496	30.262	1.870	36.883	1.00	18.87
ATOM	16678	CA	ALA	2496	30.756	2.072	37.256	1.00	18.29
ATOM	16679	CB	ALA	2496	31.161	2.847	37.709	1.00	17.17
ATOM	16680	ALA	ALA	2496	30.556	4.248	36.038	1.00	17.33
ATOM	16681	ALA	ALA	2496	30.877	5.355	36.636	1.00	17.44
ATOM	16682	N	PHE	2497	30.181	4.018	36.014	1.00	17.32
ATOM	16683	CA	PHE	2497	30.215	5.104	36.033	1.00	16.32
ATOM	16684	B	PHE	2497	30.777	4.639	37.680	1.00	17.17
ATOM	16685	G	PHE	2497	30.109	3.944	36.781	1.00	16.78
ATOM	16686	D1	PHE	2497	30.023	4.261	36.781	1.00	17.65
ATOM	16687	D2	PHE	2497	30.459	2.976	36.832	1.00	19.45
ATOM	16688	OE1	PHE	2497	30.764	3.626	36.034	1.00	18.78
ATOM	16689	OE2	PHE	2497	30.686	2.334	36.783	1.00	18.30
ATOM	16690	Z	PHE	2497	30.594	2.660	36.781	1.00	18.48
ATOM	16691	PHE	PHE	2497	30.877	5.619	36.783	1.00	18.69
ATOM	16692	O	PHE	2497	30.616	6.872	36.761	1.00	18.02
ATOM	16693	N	GLU	2498	30.860	4.753	36.614	1.00	17.61
ATOM	16694	CA	GLU	2498	30.474	5.171	37.064	1.00	18.00
ATOM	16695	B	GLU	2498	30.635	5.854	37.062	1.00	20.16
ATOM	16696	CG	GLU	2498	30.122	4.090	36.614	1.00	20.82
ATOM	16697	CD	GLU	2498	29.165	4.785	36.612	1.00	30.35
ATOM	16698	OE1	GLU	2498	29.170	4.638	36.616	1.00	37.69
ATOM	16699	OE2	GLU	2498	29.116	5.419	36.613	1.00	38.72
ATOM	16700	O	GLU	2498	30.880	5.947	36.499	1.00	18.47
ATOM	16701	O	GLU	2498	30.868	7.049	36.181	1.00	18.38
ATOM	16702	N	ASN	2499	29.954	5.413	36.711	1.00	18.25
ATOM	16703	CA	ASN	2499	29.392	6.105	36.638	1.00	18.35
ATOM	16704	CB	ASN	2499	29.335	5.117	38.770	1.00	18.68
ATOM	16705	CG	ASN	2499	28.385	3.957	37.479	1.00	18.41
ATOM	16706	ND1	ASN	2499	27.309	4.178	36.639	1.00	21.49
ATOM	16707	ND2	ASN	2499	28.767	2.821	36.683	1.00	18.16
ATOM	16708	O	ASN	2499	30.125	7.369	37.115	1.00	18.51
ATOM	16709	O	ASN	2499	29.513	8.347	37.173	1.00	18.86
ATOM	16710	N	ALA	2500	30.422	7.440	36.965	1.00	20.06
ATOM	16711	CA	ALA	2500	30.207	8.641	36.739	1.00	18.16
ATOM	16712	CB	ALA	2500	31.694	8.367	37.943	1.00	19.94
ATOM	16713	C	ALA	2500	31.743	9.734	36.734	1.00	18.15
ATOM	16714	O	ALA	2500	31.472	10.898	36.635	1.00	18.44
ATOM	16715	N	ALA	2501	30.652	10.389	36.904	1.00	18.77
ATOM	16716	CA	ALA	2501	31.229	10.359	38.041	1.00	19.26
ATOM	16717	CB	ALA	2501	31.220	9.670	38.608	1.00	19.19
ATOM	16718	C	ALA	2501	30.856	10.805	38.303	1.00	18.89
ATOM	16719	O	ALA	2501	30.392	11.070	38.028	1.00	18.78
ATOM	16720	N	THR	2502	30.663	11.031	38.862	1.00	18.39
ATOM	16721	CA	THR	2502	29.805	10.521	38.200	1.00	18.30
ATOM	16722	CB	THR	2502	29.731	9.435	38.721	1.00	18.31
ATOM	16723	OG1	THR	2502	28.535	8.336	38.685	1.00	18.62
ATOM	16724	OG2	THR	2502	29.358	9.803	38.148	1.00	18.69
ATOM	16725	O	THR	2502	29.829	11.534	38.281	1.00	18.73
ATOM	16726	O	THR	2502	29.919	12.532	38.204	1.00	18.10
ATOM	16727	N	VAL	2503	30.341	12.333	37.301	1.00	18.03
ATOM	16728	CA	VAL	2503	29.582	11.080	38.413	1.00	18.12
ATOM	16729	CB	VAL	2503	29.734	11.588	39.565	1.00	21.79
ATOM	16730	CG1	VAL	2503	29.965	12.604	40.454	1.00	26.41
ATOM	16731	CG2	VAL	2503	29.365	10.712	40.355	1.00	18.83
ATOM	16732	C	VAL	2503	29.531	13.541	37.962	1.00	18.80
ATOM	16733	O	VAL	2503	29.949	14.449	38.435	1.00	18.94
ATOM	16734	N	MET	2504	30.266	12.362	37.037	1.00	18.31
ATOM	16735	CA	MET	2504	31.078	14.471	36.499	1.00	19.37
ATOM	16736	CB	MET	2504	30.011	13.058	36.869	1.00	17.55
ATOM	16737	CG	MET	2504	30.134	13.157	36.833	1.00	17.77

ATOM	16738	SD	MET	2504	34.195	14.200	37.555	1.00	33.58
ATOM	16739	CE	MET	2504	35.397	14.833	36.400	1.00	29.91
ATOM	16740	C	MET	2504	30.138	15.357	35.623	1.00	19.08
ATOM	16741	O	MET	2504	30.170	16.573	35.755	1.00	16.51
ATOM	16742	N	ARG	2505	29.341	14.757	34.738	1.00	18.53
ATOM	16743	CA	ARG	2505	28.456	15.553	33.583	1.00	19.62
ATOM	16744	CB	ARG	2505	27.741	14.672	32.853	1.00	19.49
ATOM	16745	CG	ARG	2505	28.675	15.917	31.888	1.00	22.49
ATOM	16746	CD	ARG	2505	27.908	15.299	30.715	1.00	23.75
ATOM	16747	NE	ARG	2505	28.768	15.314	29.585	1.00	25.72
ATOM	16748	CZ	ARG	2505	28.734	15.615	30.768	1.00	24.59
ATOM	16749	NH1	ARG	2505	27.997	16.436	31.261	1.00	22.81
ATOM	16750	NH2	ARG	2505	29.501	16.197	29.569	1.00	26.75
ATOM	16751	C	ARG	2505	27.441	16.198	34.718	1.00	17.69
ATOM	16752	O	ARG	2505	26.995	15.351	34.327	1.00	18.42
ATOM	16753	N	ALA	2506	27.145	15.755	31.907	1.00	17.09
ATOM	16754	CA	ALA	2506	26.164	16.363	30.800	1.00	18.48
ATOM	16755	CB	ALA	2506	25.654	15.325	27.792	1.00	17.11
ATOM	16756	C	ALA	2506	26.715	15.780	30.541	1.00	18.25
ATOM	16757	O	ALA	2506	25.987	16.196	31.165	1.00	18.73
ATOM	16758	N	GLY	2507	28.061	15.801	31.441	1.00	18.31
ATOM	16759	CA	GLY	2507	28.661	16.958	30.098	1.00	17.36
ATOM	16760	C	GLY	2507	29.873	16.702	30.843	1.00	20.81
ATOM	16761	O	GLY	2507	26.577	16.624	30.510	1.00	20.50
ATOM	16762	N	ALA	2508	26.187	15.478	30.738	1.00	20.76
ATOM	16763	CA	ALA	2508	21.154	15.196	30.001	1.00	19.08
ATOM	16764	CB	ALA	2508	21.578	15.748	30.506	1.00	18.41
ATOM	16765	C	ALA	2508	21.669	15.481	30.541	1.00	18.00
ATOM	16766	O	ALA	2508	22.576	15.501	30.174	1.00	18.04
ATOM	16767	N	ASN	2509	23.601	15.889	30.105	1.00	19.09
ATOM	16768	CA	ASN	2509	24.981	16.184	30.523	1.00	18.55
ATOM	16769	CB	ASN	2509	25.657	15.401	30.185	1.00	21.77
ATOM	16770	CG	ASN	2509	24.887	16.675	30.565	1.00	18.73
ATOM	16771	CT1	ASN	2509	24.770	21.073	30.748	1.00	17.30
ATOM	16772	ND1	ASN	2509	24.474	21.598	30.657	1.00	18.50
ATOM	16773	C	ASN	2509	25.995	15.000	30.756	1.00	18.38
ATOM	16774	O	ASN	2509	26.841	16.777	30.356	1.00	18.41
ATOM	16775	N	MTT	2510	25.625	16.148	41.512	1.00	17.39
ATOM	16776	CA	MTT	2510	26.438	15.115	41.167	1.00	19.44
ATOM	16777	CB	MTT	2510	27.476	15.577	41.151	1.00	18.59
ATOM	16778	CG	MTT	2510	28.455	14.514	41.159	1.00	21.30
ATOM	16779	CT	MTT	2510	29.614	15.170	41.545	1.00	21.81
ATOM	16780	CE	MTT	2510	41.636	15.618	41.565	1.00	21.62
ATOM	16781	C	MTT	2510	25.556	14.000	41.184	1.00	20.13
ATOM	16782	O	MTT	2510	24.535	14.188	41.327	1.00	18.95
ATOM	16783	N	VAL	2511	26.047	12.785	41.665	1.00	21.21
ATOM	16784	CA	VAL	2511	25.131	11.926	41.158	1.00	20.65
ATOM	16785	CB	VAL	2511	25.129	10.986	41.353	1.00	23.58
ATOM	16786	CG1	VAL	2511	24.633	9.304	41.566	1.00	20.75
ATOM	16787	CG2	VAL	2511	24.316	11.346	39.908	1.00	23.75
ATOM	16788	C	VAL	2511	26.055	10.995	41.547	1.00	19.91
ATOM	16789	O	VAL	2511	27.267	10.916	41.565	1.00	18.34
ATOM	16790	N	LYS	2512	25.268	10.547	41.561	1.00	18.53
ATOM	16791	CA	LYS	2512	25.858	9.907	41.515	1.00	18.95
ATOM	16792	CB	LYS	2512	25.473	10.638	40.880	1.00	18.77
ATOM	16793	CG	LYS	2512	26.054	9.939	40.944	1.00	21.49
ATOM	16794	CD	LYS	2512	26.133	10.955	41.335	1.00	21.66
ATOM	16795	CE	LYS	2512	45.935	11.031	39.034	1.00	23.53
ATOM	16796	NE	LYS	2512	45.465	9.709	50.565	1.00	21.33
ATOM	16797	C	LYS	2512	25.407	8.442	41.620	1.00	19.54
ATOM	16798	O	LYS	2512	41.119	8.137	41.525	1.00	23.01
ATOM	16799	N	ILE	2513	26.070	9.535	41.877	1.00	17.83
ATOM	16800	CA	ILE	2513	25.085	6.717	41.913	1.00	17.49
ATOM	16801	CB	ILE	2513	26.447	5.354	43.617	1.00	17.97
ATOM	16802	CG1	ILE	2513	25.518	5.336	43.433	1.00	17.02
ATOM	16803	CG2	ILE	2513	27.696	5.154	41.213	1.00	18.73
ATOM	16804	CD1	ILE	2513	26.355	4.774	42.946	1.00	18.72
ATOM	16805	C	ILE	2513	26.849	5.131	47.081	1.00	18.41
ATOM	16806	O	ILE	2513	27.934	5.338	47.353	1.00	18.45
ATOM	16807	N	GLU	2514	26.004	4.548	47.765	1.00	18.66
ATOM	16808	CA	GLU	2514	26.776	3.361	48.932	1.00	18.39
ATOM	16809	CB	GLU	2514	25.862	3.542	48.925	1.00	19.81
ATOM	16810	CG	GLU	2514	24.877	4.743	53.360	1.00	20.46
ATOM	16811	CD	GLU	2514	23.631	4.347	51.227	1.00	21.36
ATOM	16812	CE1	GLU	2514	25.542	3.177	51.644	1.00	22.24
ATOM	16813	CE2	GLU	2514	25.765	5.312	51.434	1.00	23.56
ATOM	16814	C	GLU	2514	27.512	2.569	48.571	1.00	19.65

ATOM	16815	O	GLU	2514	37.045	1.777	47.755	1.00	18.14
ATOM	16816	N	GLY	2515	38.665	2.339	49.189	1.00	20.64
ATOM	16817	CA	GLY	2515	39.389	1.117	48.896	1.00	20.29
ATOM	16818	C	GLY	2515	40.890	1.188	48.808	1.00	19.74
ATOM	16819	O	GLY	2515	41.893	2.371	48.501	1.00	18.88
ATOM	16820	N	GLY	2516	41.607	0.198	49.065	1.00	19.47
ATOM	16821	CA	GLY	2516	43.052	0.124	49.637	1.00	18.59
ATOM	16822	C	GLY	2516	43.831	-0.132	49.701	1.00	18.48
ATOM	16823	O	GLY	2516	43.147	-0.303	49.639	1.00	17.54
ATOM	16824	N	GLU	2517	44.721	-0.959	47.769	1.00	20.76
ATOM	16825	CA	GLU	2517	45.487	-1.741	46.580	1.00	23.29
ATOM	16826	CB	GLU	2517	46.635	-2.342	46.974	1.00	25.23
ATOM	16827	CG	GLU	2517	47.689	-2.980	46.886	1.00	32.03
ATOM	16828	CD	GLU	2517	48.933	-3.090	46.567	1.00	36.09
ATOM	16829	OE1	GLU	2517	49.857	-3.800	45.579	1.00	38.84
ATOM	16830	OE2	GLU	2517	49.009	-2.475	47.169	1.00	37.39
ATOM	16831	C	GLU	2517	44.676	-1.992	45.447	1.00	23.15
ATOM	16832	O	GLU	2517	45.079	-1.892	44.287	1.00	21.58
ATOM	16833	N	PEP	2518	43.760	-2.322	45.749	1.00	21.67
ATOM	16834	CA	PEP	2518	42.791	-1.192	44.681	1.00	21.57
ATOM	16835	CB	PEP	2518	41.619	-0.110	44.143	1.00	24.31
ATOM	16836	CG	PEP	2518	41.171	-0.795	43.814	1.00	24.10
ATOM	16837	CH2	PEP	2518	39.171	-0.937	43.143	1.00	21.36
ATOM	16838	CH3	PEP	2518	38.166	-1.111	44.078	1.00	23.70
ATOM	16839	CH3	PEP	2518	38.090	-0.108	43.837	1.00	22.85
ATOM	16840	CD1	PEP	2518	40.850	-0.874	47.107	1.00	25.01
ATOM	16841	NE1	PEP	2518	35.147	-2.116	47.168	1.00	24.49
ATOM	16842	C12	TRF	2519	37.139	-1.138	47.711	1.00	21.40
ATOM	16843	C13	TRF	2519	37.841	-1.135	48.572	1.00	22.83
ATOM	16844	CH2	TRF	2519	36.125	-1.993	44.456	1.00	20.90
ATOM	16845	C	TRF	2519	42.167	-1.182	48.666	1.00	21.38
ATOM	16846	O	TRF	2519	41.877	-0.161	47.165	1.00	24.23
ATOM	16847	N	LEU	2519	42.137	-1.116	47.645	1.00	21.95
ATOM	16848	CA	LEU	2519	41.834	0.170	48.111	1.00	19.59
ATOM	16849	CB	LEU	2519	41.119	1.110	48.613	1.00	19.89
ATOM	16850	CG	LEU	2519	39.771	0.961	47.572	1.00	20.95
ATOM	16851	CD1	LEU	2519	39.734	1.007	48.517	1.00	20.03
ATOM	16852	CD2	LEU	2519	38.321	0.872	48.169	1.00	19.11
ATOM	16853	C	LEU	2519	42.115	0.114	48.192	1.00	20.97
ATOM	16854	O	LEU	2519	42.837	1.176	47.414	1.00	20.88
ATOM	16855	N	VAL	2520	44.115	0.981	42.473	1.00	19.49
ATOM	16856	CA	VAL	2520	43.124	0.095	41.602	1.00	18.98
ATOM	16857	CB	VAL	2520	46.511	0.172	41.864	1.00	19.27
ATOM	16858	CG1	VAL	2520	47.524	0.619	40.835	1.00	20.17
ATOM	16859	CG2	VAL	2520	47.371	0.113	43.762	1.00	21.65
ATOM	16860	C	VAL	2520	44.871	1.110	41.116	1.00	18.51
ATOM	16861	O	VAL	2520	44.781	1.119	39.633	1.00	18.33
ATOM	16862	N	GLU	2521	44.471	-0.117	39.543	1.00	17.61
ATOM	16863	CA	GLU	2521	44.154	-0.143	38.163	1.00	21.27
ATOM	16864	CB	GLU	2521	43.779	-1.448	37.729	1.00	25.74
ATOM	16865	CG	GLU	2521	43.404	-1.168	36.061	1.00	31.81
ATOM	16866	CD	GLU	2521	43.134	-1.109	35.856	1.00	35.80
ATOM	16867	OE1	GLU	2521	41.303	-1.673	36.408	1.00	37.34
ATOM	16868	OE2	GLU	2521	41.471	-0.710	31.985	1.00	34.34
ATOM	16869	C	GLU	2521	41.637	0.942	37.828	1.00	14.71
ATOM	16870	O	GLU	2521	43.137	1.131	36.879	1.00	14.47
ATOM	16871	N	THR	2522	41.667	0.009	33.611	1.00	14.71
ATOM	16872	CA	THR	2522	40.834	1.139	38.360	1.00	17.67
ATOM	16873	CB	THR	2522	39.896	1.186	39.741	1.00	17.57
ATOM	16874	CG1	THR	2522	39.427	0.117	39.182	1.00	17.37
ATOM	16875	CG2	THR	2522	38.481	1.139	39.074	1.00	16.11
ATOM	16876	C	THR	2522	41.332	1.156	38.469	1.00	17.04
ATOM	16877	O	THR	2522	40.808	1.009	37.668	1.00	16.73
ATOM	16878	N	VAL	2523	42.060	1.190	39.457	1.00	18.81
ATOM	16879	CA	VAL	2523	43.488	1.168	39.814	1.00	18.66
ATOM	16880	CB	VAL	2523	43.195	1.193	40.910	1.00	19.35
ATOM	16881	CG1	VAL	2523	43.579	0.995	41.011	1.00	20.95
ATOM	16882	CG2	VAL	2523	42.442	1.199	42.116	1.00	18.43
ATOM	16883	C	VAL	2523	43.145	1.393	38.411	1.00	18.19
ATOM	16884	O	VAL	2523	43.141	1.176	37.859	1.00	17.81
ATOM	16885	N	GLN	2524	44.199	1.563	38.839	1.00	14.92
ATOM	16886	CA	GLN	2524	45.174	1.894	36.963	1.00	19.99
ATOM	16887	CB	GLN	2524	46.169	1.761	36.629	1.00	21.97
ATOM	16888	CG	GLN	2524	47.125	1.463	37.764	1.00	28.47
ATOM	16889	CD	GLN	2524	48.116	2.355	37.417	1.00	32.41
ATOM	16890	OE1	GLN	2524	47.111	1.973	36.496	1.00	34.99
ATOM	16891	OE2	GLN	2524	46.167	1.814	35.237	1.00	32.11

ATOM	16892	C	GLN	2524	44.359	8.153	35.648	1.00	20.47
ATOM	16893	O	GLN	2524	44.572	8.146	34.950	1.00	19.34
ATOM	16894	N	MET	2525	43.420	8.258	35.360	1.00	19.30
ATOM	16895	CA	MET	2525	42.600	8.385	34.163	1.00	20.94
ATOM	16896	CB	MET	2525	41.853	8.076	33.908	1.00	20.76
ATOM	16897	CG	MET	2525	42.790	8.041	33.515	1.00	22.97
ATOM	16898	SD	MET	2525	41.950	8.339	33.211	1.00	25.68
ATOM	16899	CE	MET	2525	41.613	8.585	31.487	1.00	26.32
ATOM	16900	C	MET	2525	41.678	8.558	34.213	1.00	21.37
ATOM	16901	O	MET	2525	41.439	8.272	33.208	1.00	21.65
ATOM	16902	N	LEU	2526	41.644	8.808	35.335	1.00	21.24
ATOM	16903	CA	LEU	2526	43.119	8.995	35.103	1.00	20.86
ATOM	16904	CB	LEU	2526	39.507	8.964	36.900	1.00	17.52
ATOM	16905	CG	LEU	2526	38.290	8.075	37.149	1.00	16.74
ATOM	16906	CD1	LEU	2526	37.596	8.041	36.641	1.00	15.92
ATOM	16907	CD2	LEU	2526	37.695	8.606	36.275	1.00	16.80
ATOM	16908	C	LEU	2526	42.878	8.311	35.275	1.00	22.11
ATOM	16909	O	LEU	2526	42.404	8.114	34.546	1.00	21.06
ATOM	16910	N	TRP	2527	42.649	8.755	35.835	1.00	22.08
ATOM	16911	CA	TRP	2527	42.875	8.755	35.735	1.00	24.11
ATOM	16912	CB	TRP	2527	44.186	8.419	36.521	1.00	24.25
ATOM	16913	CD1	TRP	2527	42.872	8.213	35.914	1.00	22.58
ATOM	16914	CD2	TRP	2527	42.667	10.806	36.534	1.00	22.05
ATOM	16915	C	TRP	2527	43.117	8.283	34.276	1.00	23.83
ATOM	16916	O	TRP	2527	42.661	11.070	33.838	1.00	26.72
ATOM	16917	N	GLU	2528	43.639	8.888	33.529	1.00	22.93
ATOM	16918	CA	GLU	2528	44.647	8.127	32.138	1.00	23.80
ATOM	16919	CB	GLU	2528	44.821	8.345	31.553	1.00	22.80
ATOM	16920	CD	GLU	2528	43.990	8.387	31.771	1.00	21.34
ATOM	16921	CE	GLU	2528	44.816	8.567	30.731	1.00	24.55
ATOM	16922	OE1	GLU	2528	45.787	8.457	29.683	1.00	18.39
ATOM	16923	OE2	GLU	2528	44.539	4.535	31.237	1.00	21.06
ATOM	16924	C	GLU	2528	42.877	8.429	31.267	1.00	22.13
ATOM	16925	O	GLU	2528	42.971	8.506	30.733	1.00	23.21
ATOM	16926	N	ARG	2529	42.674	8.176	31.787	1.00	23.30
ATOM	16927	CA	ARG	2529	40.783	8.431	31.669	1.00	23.76
ATOM	16928	CB	ARG	2529	39.423	8.230	31.123	1.00	26.83
ATOM	16929	CG	ARG	2529	39.946	8.714	30.431	1.00	26.61
ATOM	16930	CD	ARG	2529	39.231	8.787	30.276	1.00	23.68
ATOM	16931	NE	ARG	2529	39.737	8.615	30.075	1.00	24.06
ATOM	16932	C	ARG	2529	40.990	8.180	30.641	1.00	26.03
ATOM	16933	NH1	ARG	2529	42.873	4.789	30.838	1.00	23.79
ATOM	16934	NH2	ARG	2529	41.560	8.141	29.255	1.00	21.57
ATOM	16935	O	ARG	2529	39.773	11.112	31.130	1.00	18.54
ATOM	16936	C	ARG	2529	38.477	10.817	31.485	1.00	28.70
ATOM	16937	N	ALA	2530	40.543	11.687	32.061	1.00	28.09
ATOM	16938	CA	ALA	2530	40.613	11.830	32.431	1.00	26.75
ATOM	16939	CB	ALA	2530	39.213	13.643	31.872	1.00	28.14
ATOM	16940	C	ALA	2530	39.196	11.670	33.731	1.00	18.74
ATOM	16941	O	ALA	2530	38.791	11.876	33.917	1.00	22.02
ATOM	16942	N	VAL	2531	39.409	11.434	34.563	1.00	13.38
ATOM	16943	CA	VAL	2531	38.655	11.697	35.849	1.00	22.24
ATOM	16944	CB	VAL	2531	37.863	10.617	35.933	1.00	11.38
ATOM	16945	CG1	VAL	2531	37.901	10.606	37.117	1.00	21.93
ATOM	16946	CG2	VAL	2531	36.834	10.730	34.737	1.00	21.60
ATOM	16947	C	VAL	2531	39.343	11.668	37.038	1.00	21.03
ATOM	16948	O	VAL	2531	39.133	10.679	37.183	1.00	21.71
ATOM	16949	N	PRO	2532	39.618	13.137	37.713	1.00	21.21
ATOM	16950	CD	PRO	2532	38.001	14.412	37.439	1.00	22.52
ATOM	16951	CA	PRO	2532	39.430	13.759	38.334	1.00	21.45
ATOM	16952	CB	PRO	2532	39.424	11.757	39.138	1.00	21.22
ATOM	16953	CG	PRO	2532	38.730	11.133	38.738	1.00	21.65
ATOM	16954	C	PRO	2532	39.836	12.321	40.037	1.00	21.12
ATOM	16955	O	PRO	2532	38.633	12.316	40.235	1.00	21.74
ATOM	16956	N	VAL	2533	39.673	11.673	40.773	1.00	13.42
ATOM	16957	CA	VAL	2533	39.208	10.802	41.307	1.00	11.80
ATOM	16958	CB	VAL	2533	39.573	8.319	41.338	1.00	13.15
ATOM	16959	CG1	VAL	2533	39.714	8.462	42.735	1.00	14.03
ATOM	16960	CG2	VAL	2533	39.134	8.932	40.263	1.00	14.13
ATOM	16961	C	VAL	2533	39.996	11.181	43.220	1.00	13.90
ATOM	16962	O	VAL	2533	31.444	11.587	43.389	1.00	14.13
ATOM	16963	N	TYR	2534	39.813	11.644	44.304	1.00	12.65
ATOM	16964	CA	TYR	2534	40.143	11.296	45.608	1.00	12.23
ATOM	16965	CB	TYR	2534	39.125	12.350	46.259	1.00	16.92
ATOM	16966	CG	TYR	2534	39.435	12.575	48.025	1.00	12.39
ATOM	16967	C	TYR	2534	40.038	9.927	46.269	1.00	12.85
ATOM	16968	O	TYR	2534	38.094	9.158	46.137	1.00	20.42

ATOM	16969	N	GLY	2535	41.167	9.481	46.917	1.00	16.91
ATOM	16970	CA	GLY	2535	41.084	8.192	47.580	1.00	17.14
ATOM	16971	C	GLY	2535	40.382	8.290	48.921	1.00	18.33
ATOM	16972	O	GLY	2535	40.841	9.388	49.862	1.00	19.44
ATOM	16973	N	HIS	2536	40.188	7.149	49.563	1.00	17.74
ATOM	16974	CA	HIS	2536	39.384	7.107	50.863	1.00	18.87
ATOM	16975	CB	HIS	2536	37.980	7.162	50.683	1.00	20.21
ATOM	16976	CG	HIS	2536	37.307	7.331	51.956	1.00	18.75
ATOM	16977	CD2	HIS	2536	37.187	7.091	53.248	1.00	19.79
ATOM	16978	ND1	HIS	2536	35.897	5.761	51.971	1.00	20.89
ATOM	16979	OE1	HIS	2536	35.483	5.777	53.118	1.00	19.89
ATOM	16980	NE2	HIS	2536	36.488	7.873	54.011	1.00	20.14
ATOM	16981	C	HIS	2536	39.817	5.823	51.575	1.00	18.66
ATOM	16982	O	HIS	2536	39.620	4.717	51.125	1.00	19.86
ATOM	16983	N	LEU	2537	40.679	5.884	52.680	1.00	18.70
ATOM	16984	CA	LEU	2537	41.127	4.855	53.458	1.00	17.87
ATOM	16985	CB	LEU	2537	42.680	4.771	53.538	1.00	19.11
ATOM	16986	CG	LEU	2537	43.219	4.887	51.977	1.00	18.70
ATOM	16987	CD1	LEU	2537	44.555	4.539	51.968	1.00	19.81
ATOM	16988	CD2	LEU	2537	42.881	4.429	51.61	1.00	17.15
ATOM	16989	C	LEU	2537	42.881	4.429	51.61	1.00	17.15
ATOM	16990	O	LEU	2537	40.881	6.176	53.771	1.00	19.15
ATOM	16991	N	GLY	2538	40.880	8.801	55.677	1.00	18.73
ATOM	16992	CA	GLY	2538	40.880	7.882	55.677	1.00	18.73
ATOM	16993	C	GLY	2538	39.135	7.183	53.28	1.00	21.82
ATOM	16994	O	GLY	2538	39.315	7.111	56.884	1.00	20.12
ATOM	16995	N	LEU	2539	38.894	7.110	57.985	1.00	21.18
ATOM	16996	CA	LEU	2539	37.685	7.170	58.197	1.00	21.62
ATOM	16997	CB	LEU	2539	36.488	8.386	59.608	1.00	20.10
ATOM	16998	CG	LEU	2539	35.184	8.309	60.806	1.00	20.11
ATOM	16999	CD1	LEU	2539	34.886	8.116	61.877	1.00	20.15
ATOM	17000	CD2	LEU	2539	34.184	7.862	59.880	1.00	24.37
ATOM	17001	C	LEU	2539	36.211	8.880	58.987	1.00	21.11
ATOM	17002	O	LEU	2539	35.685	8.811	58.890	1.00	24.68
ATOM	17003	N	THR	2540	38.189	8.889	58.010	1.00	21.75
ATOM	17004	CA	THR	2540	35.788	8.110	54.801	1.00	21.60
ATOM	17005	CB	THR	2540	35.881	7.187	57.509	1.00	21.72
ATOM	17006	CG1	THR	2540	37.811	8.880	51.981	1.00	21.48
ATOM	17007	CG2	THR	2540	37.186	8.385	53.243	1.00	21.38
ATOM	17008	C	THR	2540	38.844	8.784	55.072	1.00	21.43
ATOM	17009	O	THR	2540	35.880	8.711	54.982	1.00	21.82
ATOM	17010	N	PRO	2541	32.887	8.183	55.483	1.00	21.67
ATOM	17011	CD	PRO	2541	33.188	8.441	55.780	1.00	21.28
ATOM	17012	CA	PRO	2541	32.185	8.165	55.711	1.00	21.41
ATOM	17013	CB	PRO	2541	30.987	8.443	55.801	1.00	20.13
ATOM	17014	CG	PRO	2541	31.817	8.420	54.989	1.00	18.14
ATOM	17015	C	PRO	2541	30.880	8.112	54.777	1.00	21.08
ATOM	17016	O	PRO	2541	29.984	7.889	55.212	1.00	21.27
ATOM	17017	N	GLN	2542	31.241	8.196	55.194	1.00	21.17
ATOM	17018	CA	GLN	2542	30.880	7.180	51.582	1.00	20.34
ATOM	17019	CB	GLN	2542	31.081	7.182	51.126	1.00	19.49
ATOM	17020	CG	GLN	2542	30.488	8.116	50.462	1.00	18.10
ATOM	17021	CD	GLN	2542	31.087	8.112	49.680	1.00	20.09
ATOM	17022	OE1	GLN	2542	31.584	8.172	48.889	1.00	21.78
ATOM	17023	NE2	GLN	2542	31.014	8.185	48.686	1.00	18.53
ATOM	17024	C	GLN	2542	30.887	-0.186	52.982	1.00	20.27
ATOM	17025	O	GLN	2542	-0.106	-1.867	52.659	1.00	21.15
ATOM	17026	N	SER	2543	-2.005	-0.81	53.885	1.00	21.08
ATOM	17027	CA	SER	2543	-2.382	-1.115	54.083	1.00	20.09
ATOM	17028	CB	SER	2543	-2.931	-1.184	53.925	1.00	22.29
ATOM	17029	CG	SER	2543	-4.285	-2.187	52.853	1.00	22.70
ATOM	17030	C	SER	2543	-3.089	-2.188	55.841	1.00	20.18
ATOM	17031	O	SER	2543	-3.583	-2.884	56.182	1.00	19.81
ATOM	17032	N	VAL	2544	31.081	-1.18	56.777	1.00	18.11
ATOM	17033	CA	VAL	2544	30.611	-1.891	57.455	1.00	20.13
ATOM	17034	CB	VAL	2544	29.418	-0.373	57.774	1.00	21.04
ATOM	17035	CG1	VAL	2544	28.211	-0.812	56.867	1.00	22.69
ATOM	17036	CG2	VAL	2544	28.031	-0.615	54.185	1.00	24.52
ATOM	17037	C	VAL	2544	30.381	-2.847	57.775	1.00	19.17
ATOM	17038	O	VAL	2544	30.683	-3.443	58.454	1.00	17.37
ATOM	17039	N	ASN	2545	29.684	-3.883	58.885	1.00	20.26
ATOM	17040	CA	ASN	2545	29.288	-4.883	57.041	1.00	21.25
ATOM	17041	CB	ASN	2545	28.350	-5.383	55.981	1.00	20.97
ATOM	17042	CG	ASN	2545	27.099	-4.883	55.989	1.00	19.71
ATOM	17043	CD	ASN	2545	26.115	-4.417	58.881	1.00	19.36
ATOM	17044	N	ASN	2545	24.185	-3.801	54.997	1.00	20.75
ATOM	17045	C	ASN	2545	23.881	-5.883	57.181	1.00	22.83

ATOM	17046	O	ASN	2545	30.499	-6.877	57.726	1.00	23.72
ATOM	17047	N	ILE	2546	31.594	-5.395	56.443	1.00	21.99
ATOM	17048	CA	ILE	2546	32.859	-6.154	56.447	1.00	14.98
ATOM	17049	CB	ILE	2546	32.842	-5.623	55.379	1.00	26.25
ATOM	17050	CG2	ILE	2546	35.189	-6.332	55.529	1.00	24.01
ATOM	17051	CG1	ILE	2546	33.295	-5.852	53.968	1.00	26.29
ATOM	17052	CD1	ILE	2546	32.166	-7.236	53.587	1.00	15.88
ATOM	17053	C	ILE	2546	32.485	-6.028	52.827	1.00	26.31
ATOM	17054	O	ILE	2546	33.852	-7.027	58.445	1.00	16.76
ATOM	17055	N	PHE	2547	33.606	-4.754	58.269	1.00	26.71
ATOM	17056	CA	PHE	2547	34.114	-4.154	59.315	1.00	29.32
ATOM	17057	CB	PHE	2547	34.482	-3.033	59.860	1.00	29.87
ATOM	17058	CG	PHE	2547	35.118	-2.461	58.779	1.00	31.32
ATOM	17059	CD1	PHE	2547	36.474	-2.939	58.158	1.00	23.03
ATOM	17060	CD2	PHE	2547	34.780	-1.251	58.054	1.00	31.76
ATOM	17061	CE1	PHE	2547	37.104	-2.342	57.729	1.00	31.42
ATOM	17062	CE2	PHE	2547	35.504	-0.647	57.024	1.00	31.54
ATOM	17063	CZ	PHE	2547	36.519	-1.195	56.612	1.00	31.74
ATOM	17064	C	PHE	2547	33.879	-5.011	60.756	1.00	30.19
ATOM	17065	O	PHE	2547	33.814	-5.729	61.837	1.00	31.62
ATOM	17066	N	GLY	2548	31.800	-3.165	60.114	1.00	31.16
ATOM	17067	CA	GLY	2548	32.000	-3.483	61.541	1.00	31.22
ATOM	17068	C	GLY	2548	30.665	-4.184	62.767	1.00	31.76
ATOM	17069	O	GLY	2548	30.181	-4.422	63.113	1.00	31.19
ATOM	17070	N	GLY	2549	30.711	-3.166	61.755	1.00	31.69
ATOM	17071	CA	GLY	2549	30.861	-1.882	62.458	1.00	21.70
ATOM	17072	C	GLY	2549	31.316	-0.764	62.885	1.00	31.81
ATOM	17073	O	GLY	2549	32.231	-0.947	61.173	1.00	31.10
ATOM	17074	N	TYR	2550	32.131	0.359	62.703	1.00	31.02
ATOM	17075	CA	TYR	2550	32.935	1.325	62.467	1.00	31.59
ATOM	17076	CB	TYR	2550	32.125	2.827	62.156	1.00	31.84
ATOM	17077	CG	TYR	2550	30.884	2.806	61.471	1.00	32.99
ATOM	17078	CD1	TYR	2550	28.867	2.107	61.800	1.00	31.25
ATOM	17079	CE1	TYR	2550	27.881	2.140	60.873	1.00	33.43
ATOM	17080	CD2	TYR	2550	30.137	2.129	60.183	1.00	31.03
ATOM	17081	CE2	TYR	2550	29.101	3.211	59.151	1.00	32.75
ATOM	17082	CZ	TYR	2550	27.436	2.651	59.600	1.00	38.27
ATOM	17083	OH	TYR	2550	26.836	2.600	58.671	1.00	36.43
ATOM	17084	C	TYR	2550	31.108	1.734	63.347	1.00	34.34
ATOM	17085	O	TYR	2550	32.143	2.126	64.572	1.00	35.16
ATOM	17086	N	LYS	2551	34.134	0.840	63.307	1.00	32.56
ATOM	17087	CA	LYS	2551	35.136	0.157	64.254	1.00	32.19
ATOM	17088	CB	LYS	2551	35.136	-0.159	64.547	1.00	41.81
ATOM	17089	CG	LYS	2551	34.764	-1.541	64.400	1.00	28.01
ATOM	17090	CD	LYS	2551	34.639	-3.915	65.108	1.00	40.12
ATOM	17091	CE	LYS	2551	35.467	-3.851	63.183	1.00	41.78
ATOM	17092	NZ	LYS	2551	35.802	-5.300	65.396	1.00	44.79
ATOM	17093	C	LYS	2551	36.863	1.438	63.713	1.00	30.37
ATOM	17094	O	LYS	2551	36.786	1.462	61.917	1.00	30.35
ATOM	17095	N	VAL	2552	37.163	1.982	64.613	1.00	19.43
ATOM	17096	CA	VAL	2552	38.530	2.658	64.215	1.00	18.05
ATOM	17097	CB	VAL	2552	39.811	3.124	65.433	1.00	18.11
ATOM	17098	CG1	VAL	2552	40.614	3.632	65.701	1.00	16.74
ATOM	17099	CG2	VAL	2552	38.410	4.304	66.096	1.00	16.18
ATOM	17100	C	VAL	2552	37.112	1.662	65.510	1.00	17.35
ATOM	17101	O	VAL	2552	38.837	0.534	67.383	1.00	16.65
ATOM	17102	N	GLN	2553	40.085	2.384	62.393	1.00	17.37
ATOM	17103	CA	GLN	2553	40.973	1.217	61.629	1.00	19.57
ATOM	17104	CB	GLN	2553	40.023	1.436	60.163	1.00	01.19
ATOM	17105	CG	GLN	2553	40.199	-0.159	59.533	1.00	41.34
ATOM	17106	CD	GLN	2553	39.102	-1.363	59.242	1.00	34.43
ATOM	17107	OE1	GLN	2553	39.086	-0.641	58.533	1.00	51.02
ATOM	17108	NR2	GLN	2553	39.798	-1.333	59.532	1.00	37.14
ATOM	17109	C	GLN	2553	43.419	1.833	61.715	1.00	19.23
ATOM	17110	O	GLN	2553	41.686	2.813	62.152	1.00	19.38
ATOM	17111	N	GLY	2554	43.346	0.337	61.333	1.00	01.12
ATOM	17112	CA	GLY	2554	41.752	1.269	60.326	1.00	11.35
ATOM	17113	C	GLY	2554	45.199	0.751	62.568	1.00	31.25
ATOM	17114	O	GLY	2554	45.730	0.751	62.590	1.00	31.16
ATOM	17115	N	ARG	2555	41.755	0.371	63.652	1.00	31.75
ATOM	17116	CA	ARG	2555	43.350	-0.083	61.851	1.00	34.75
ATOM	17117	CB	ARG	2555	44.253	-0.543	65.818	1.00	61.43
ATOM	17118	CG	ARG	2555	43.809	0.553	66.353	1.00	34.18
ATOM	17119	CD	ARG	2555	43.894	1.334	67.439	1.00	40.08
ATOM	17120	NE	ARG	2555	42.993	2.331	63.030	1.00	39.43
ATOM	17121	CZ	ARG	2555	41.807	2.081	63.580	1.00	40.99
ATOM	17122	NR1	ARG	2555	41.357	2.777	63.677	1.00	41.86

ATOM	17123	NHD	ARG	2555	41.075	-3.079	69.058	1.00	38.77
ATOM	17124	C	ARG	2555	46.310	-1.242	64.581	1.00	34.73
ATOM	17125	O	ARG	2555	45.958	-2.208	62.903	1.00	33.25
ATOM	17126	N	GLY	2556	47.523	-1.140	61.114	1.00	34.00
ATOM	17127	CA	GLY	2556	49.503	-0.194	64.917	1.00	36.18
ATOM	17128	C	GLY	2556	49.469	-1.893	63.784	1.00	36.16
ATOM	17129	O	GLY	2556	49.177	-1.128	61.677	1.00	35.12
ATOM	17130	N	ASP	2557	50.647	-2.505	67.839	1.00	36.48
ATOM	17131	CA	ASP	2557	51.663	-2.287	67.819	1.00	36.98
ATOM	17132	CB	ASP	2557	51.984	-2.931	67.231	1.00	37.69
ATOM	17133	CG	ASP	2557	51.604	-2.261	64.437	1.00	36.08
ATOM	17134	OD1	ASP	2557	51.271	-1.068	64.697	1.00	38.16
ATOM	17135	OD2	ASP	2557	51.444	-0.901	67.111	1.00	38.66
ATOM	17136	O	ASP	2557	51.266	-2.779	61.439	1.00	36.71
ATOM	17137	C	ASP	2557	51.405	-2.643	60.457	1.00	36.12
ATOM	17138	N	GLU	2558	50.777	-4.601	61.356	1.00	36.86
ATOM	17139	CA	GLU	2558	50.381	-4.571	60.674	1.00	37.15
ATOM	17140	CB	GLU	2558	49.895	-6.011	60.242	1.00	40.41
ATOM	17141	CG	GLU	2558	49.778	-6.181	59.926	1.00	44.91
ATOM	17142	CD	GLU	2558	49.811	-5.941	59.618	1.00	47.78
ATOM	17143	OE1	GLU	2558	49.616	-5.793	59.916	1.00	48.73
ATOM	17144	OE2	GLU	2558	49.899	-6.007	59.117	1.00	48.73
ATOM	17145	C	GLU	2558	49.270	-5.154	59.450	1.00	51.01
ATOM	17146	O	GLU	2558	49.344	-5.161	59.780	1.00	54.74
ATOM	17147	N	ALA	2559	49.219	-1.451	61.240	1.00	37.89
ATOM	17148	CA	ALA	2559	49.114	-2.661	60.765	1.00	37.67
ATOM	17149	CB	ALA	2559	49.017	-2.971	60.846	1.00	37.14
ATOM	17150	O	ALA	2559	49.590	-0.174	61.166	1.00	37.14
ATOM	17151	C	ALA	2559	49.110	-0.131	61.728	1.00	37.14
ATOM	17152	N	GLY	2560	49.440	-0.694	60.188	1.00	37.46
ATOM	17153	CA	GLY	2560	49.998	-0.631	60.698	1.00	37.73
ATOM	17154	C	GLY	2560	49.817	-0.671	60.617	1.00	37.96
ATOM	17155	O	GLY	2560	49.684	-1.574	60.811	1.00	37.81
ATOM	17156	N	ASP	2561	51.703	-0.507	60.185	1.00	37.11
ATOM	17157	CA	ASP	2561	51.558	-0.531	60.281	1.00	37.81
ATOM	17158	CB	ASP	2561	51.663	-1.451	60.401	1.00	37.11
ATOM	17159	CG	ASP	2561	51.676	-1.591	60.307	1.00	36.13
ATOM	17160	OD1	ASP	2561	51.971	-0.101	60.144	1.00	37.11
ATOM	17161	OD2	ASP	2561	51.014	-2.171	60.177	1.00	37.81
ATOM	17162	O	ASP	2561	50.771	-0.547	60.622	1.00	37.64
ATOM	17163	C	ASP	2561	51.012	-0.021	60.867	1.00	37.81
ATOM	17164	N	GLN	2562	49.611	-1.351	60.127	1.00	37.61
ATOM	17165	CA	GLN	2562	49.819	-1.611	60.871	1.00	37.73
ATOM	17166	CB	GLN	2562	49.763	-2.631	60.324	1.00	37.81
ATOM	17167	CG	GLN	2562	49.929	-3.081	60.123	1.00	38.73
ATOM	17168	CD	GLN	2562	49.711	-3.734	60.187	1.00	39.94
ATOM	17169	OE1	GLN	2562	49.376	-4.861	60.256	1.00	31.99
ATOM	17170	OE2	GLN	2562	49.900	-3.804	60.696	1.00	39.11
ATOM	17171	C	GLN	2562	48.117	-0.321	61.104	1.00	34.11
ATOM	17172	O	GLN	2562	48.014	-0.051	60.303	1.00	37.09
ATOM	17173	N	LEU	2563	49.618	-0.468	60.448	1.00	36.26
ATOM	17174	CA	LEU	2563	49.919	-1.728	60.101	1.00	34.14
ATOM	17175	CB	LEU	2563	49.311	-2.353	60.117	1.00	34.16
ATOM	17176	CG	LEU	2563	49.014	-1.675	60.681	1.00	37.13
ATOM	17177	CD1	LEU	2563	41.544	-2.465	60.070	1.00	27.11
ATOM	17178	CD2	LEU	2563	41.018	-1.599	60.797	1.00	27.72
ATOM	17179	C	LEU	2563	48.016	-2.767	60.573	1.00	34.13
ATOM	17180	O	LEU	2563	47.016	-3.478	60.619	1.00	37.11
ATOM	17181	N	LEU	2564	49.210	-2.682	60.067	1.00	34.14
ATOM	17182	CA	LEU	2564	50.164	-3.580	60.599	1.00	37.11
ATOM	17183	CB	LEU	2564	51.415	-3.480	60.491	1.00	37.11
ATOM	17184	CG	LEU	2564	52.262	-4.773	60.744	1.00	37.11
ATOM	17185	CD1	LEU	2564	53.515	-4.405	60.610	1.00	37.11
ATOM	17186	CD2	LEU	2564	52.515	-5.535	60.457	1.00	37.11
ATOM	17187	C	LEU	2564	50.638	-3.173	63.161	1.00	21.11
ATOM	17188	O	LEU	2564	50.718	-4.011	62.277	1.00	21.11
ATOM	17189	N	SER	2565	50.818	-1.375	62.968	1.00	21.11
ATOM	17190	CA	SER	2565	51.205	-1.361	61.613	1.00	21.11
ATOM	17191	CB	SER	2565	51.473	-0.142	61.745	1.00	26.17
ATOM	17192	CG	SER	2565	51.998	-0.634	60.523	1.00	34.16
ATOM	17193	O	SER	2565	50.107	-1.645	60.632	1.00	22.14
ATOM	17194	C	SER	2565	50.390	-1.989	60.481	1.00	21.14
ATOM	17195	N	ASP	2566	48.853	-1.500	61.014	1.00	19.13
ATOM	17196	CA	ASP	2566	49.718	-1.753	60.168	1.00	18.13
ATOM	17197	CB	ASP	2566	49.299	-1.335	60.936	1.00	19.16
ATOM	17198	CG	ASP	2566	49.204	-0.174	60.867	1.00	21.17
ATOM	17199	OD1	ASP	2566	49.111	-1.881	60.114	1.00	24.13

ATOM	17200	OD2	ASF	2566	45.313	-0.655	51.605	1.00	20.99
ATOM	17201	C	ASF	2566	47.647	1.226	49.785	1.00	18.77
ATOM	17202	C	ASF	2566	47.329	1.560	48.650	1.00	19.96
ATOM	17203	N	ALA	2567	47.945	3.109	50.732	1.00	17.84
ATOM	17204	CA	ALA	2567	47.904	3.136	50.451	1.00	17.61
ATOM	17205	CB	ALA	2567	48.135	3.341	51.731	1.00	18.06
ATOM	17206	C	ALA	2567	48.964	3.894	49.412	1.00	16.53
ATOM	17207	O	ALA	2567	43.705	3.675	48.594	1.00	11.81
ATOM	17208	N	LEU	2568	50.162	3.338	49.580	1.00	19.61
ATOM	17209	CA	LEU	2568	51.232	3.615	48.617	1.00	18.69
ATOM	17210	CB	LEU	2568	52.563	3.047	49.177	1.00	21.36
ATOM	17211	CG	LEU	2568	53.111	3.741	50.379	1.00	22.49
ATOM	17212	CD1	LEU	2568	54.382	4.997	50.917	1.00	25.67
ATOM	17213	CD2	LEU	2568	53.484	3.181	50.631	1.00	24.12
ATOM	17214	C	LEU	2568	53.887	3.011	47.749	1.00	18.91
ATOM	17215	O	LEU	2568	53.158	3.611	46.714	1.00	20.14
ATOM	17216	N	ALA	2569	53.268	3.835	47.734	1.00	18.41
ATOM	17217	CA	ALA	2569	48.892	3.135	46.615	1.00	20.41
ATOM	17218	CB	ALA	2569	48.595	3.738	46.317	1.00	18.36
ATOM	17219	C	ALA	2569	48.830	3.968	45.177	1.00	20.15
ATOM	17220	O	ALA	2569	48.834	3.985	44.914	1.00	18.66
ATOM	17221	N	LEU	2570	48.875	3.936	45.966	1.00	21.15
ATOM	17222	CA	LEU	2570	48.810	3.938	45.835	1.00	20.78
ATOM	17223	CB	LEU	2570	47.713	3.738	46.311	1.00	20.18
ATOM	17224	CG	LEU	2570	44.812	3.450	46.838	1.00	20.76
ATOM	17225	CD1	LEU	2570	48.831	4.990	47.939	1.00	20.64
ATOM	17226	CD2	LEU	2570	44.036	3.936	47.861	1.00	21.83
ATOM	17227	C	LEU	2570	47.401	3.738	44.834	1.00	20.17
ATOM	17228	O	LEU	2570	46.933	3.938	43.734	1.00	19.38
ATOM	17229	N	GLU	2571	48.736	3.183	48.517	1.00	19.16
ATOM	17230	CA	GLU	2571	48.900	3.239	48.631	1.00	20.68
ATOM	17231	CB	GLU	2571	48.963	3.183	48.317	1.00	19.65
ATOM	17232	CG	GLU	2571	53.705	10.184	45.662	1.00	21.18
ATOM	17233	CD	GLU	2571	51.688	10.683	46.734	1.00	22.16
ATOM	17234	OE1	GLU	2571	51.470	9.883	47.133	1.00	22.14
ATOM	17235	OE2	GLU	2571	51.677	11.181	47.533	1.00	21.11
ATOM	17236	C	GLU	2571	49.733	3.239	48.139	1.00	19.32
ATOM	17237	O	GLU	2571	49.673	3.239	47.837	1.00	20.18
ATOM	17238	N	ALA	2572	50.401	3.130	48.337	1.00	20.49
ATOM	17239	CA	ALA	2572	51.266	3.630	48.734	1.00	21.39
ATOM	17240	CB	ALA	2572	52.132	3.473	48.139	1.00	23.41
ATOM	17241	C	ALA	2572	50.347	3.633	47.733	1.00	22.19
ATOM	17242	O	ALA	2572	50.718	3.633	49.239	1.00	20.11
ATOM	17243	N	ALA	2573	49.132	3.938	47.732	1.00	22.14
ATOM	17244	CA	ALA	2573	48.152	3.938	47.638	1.00	21.67
ATOM	17245	CB	ALA	2573	47.033	4.137	47.813	1.00	20.11
ATOM	17246	C	ALA	2573	47.539	3.938	46.823	1.00	20.80
ATOM	17247	O	ALA	2573	47.081	3.738	38.339	1.00	20.47
ATOM	17248	N	GLY	2574	47.615	3.933	46.335	1.00	19.07
ATOM	17249	CA	GLY	2574	47.133	9.137	46.131	1.00	17.50
ATOM	17250	C	GLY	2574	46.141	9.333	47.039	1.00	17.16
ATOM	17251	O	GLY	2574	48.115	11.341	49.131	1.00	17.05
ATOM	17252	N	ALA	2575	43.736	9.130	47.137	1.00	17.09
ATOM	17253	CA	ALA	2575	41.304	10.133	47.137	1.00	19.39
ATOM	17254	CB	ALA	2575	41.634	9.136	44.338	1.00	17.37
ATOM	17255	C	ALA	2575	45.316	11.443	46.438	1.00	20.14
ATOM	17256	O	ALA	2575	46.637	11.136	46.336	1.00	22.35
ATOM	17257	N	GLN	2576	44.301	12.130	47.131	1.00	20.66
ATOM	17258	CA	GLN	2576	45.126	13.133	47.634	1.00	21.20
ATOM	17259	CB	GLN	2576	41.733	14.336	47.131	1.00	24.43
ATOM	17260	CG	GLN	2576	46.326	14.333	47.131	1.00	28.62
ATOM	17261	CD	GLN	2576	41.301	15.333	46.131	1.00	31.13
ATOM	17262	OE1	GLN	2576	41.686	16.339	47.131	1.00	36.29
ATOM	17263	NE2	GLN	2576	43.311	14.671	39.131	1.00	32.65
ATOM	17264	C	GLN	2576	41.322	14.316	46.131	1.00	21.51
ATOM	17265	O	GLN	2576	43.130	15.371	47.131	1.00	19.45
ATOM	17266	N	LEU	2577	43.391	13.519	47.131	1.00	20.67
ATOM	17267	CA	LEU	2577	43.517	13.317	47.131	1.00	21.57
ATOM	17268	CB	LEU	2577	42.267	14.639	47.131	1.00	25.05
ATOM	17269	CG	LEU	2577	42.283	16.133	47.131	1.00	26.27
ATOM	17270	CD	LEU	2577	40.374	17.718	47.131	1.00	27.14
ATOM	17271	OE1	LEU	2577	42.751	16.976	48.131	1.00	27.72
ATOM	17272	C	LEU	2577	43.280	13.515	47.639	1.00	31.36
ATOM	17273	O	LEU	2577	43.659	11.432	47.131	1.00	32.18
ATOM	17274	N	ALA	2578	43.327	12.171	47.173	1.00	19.22
ATOM	17275	CA	ALA	2578	43.095	11.387	49.691	1.00	19.03
ATOM	17276	CB	ALA	2578	44.403	13.631	49.639	1.00	19.33

ATOM	17277	CG	LEU	2578	44.235	9.475	51.320	1.00	20.24
ATOM	17278	CD1	LEU	2578	47.537	8.345	50.556	1.00	21.15
ATOM	17279	CD2	LEU	2578	47.587	8.983	51.840	1.00	20.62
ATOM	17280	C	LEU	2578	47.721	11.722	51.261	1.00	20.13
ATOM	17281	O	LEU	2578	47.656	12.694	51.947	1.00	20.75
ATOM	17282	N	VAL	2579	47.303	10.924	51.560	1.00	18.83
ATOM	17283	CA	VAL	2579	47.529	11.108	52.777	1.00	18.16
ATOM	17284	CB	VAL	2579	39.000	11.087	52.508	1.00	17.91
ATOM	17285	CG1	VAL	2579	38.230	10.877	53.827	1.00	16.02
ATOM	17286	CG2	VAL	2579	38.569	12.464	51.890	1.00	17.32
ATOM	17287	C	VAL	2579	40.884	9.997	53.720	1.00	19.66
ATOM	17288	O	VAL	2579	40.874	8.797	53.721	1.00	19.81
ATOM	17289	N	LEU	2580	47.232	10.316	54.957	1.00	19.69
ATOM	17290	CA	LEU	2580	47.576	9.357	55.697	1.00	20.13
ATOM	17291	CB	LEU	2580	47.912	9.684	56.657	1.00	21.71
ATOM	17292	CG	LEU	2580	43.154	9.117	56.645	1.00	24.98
ATOM	17293	CD1	LEU	2580	47.722	9.475	56.987	1.00	22.37
ATOM	17294	CD2	LEU	2580	47.627	9.677	55.848	1.00	22.51
ATOM	17295	C	LEU	2580	40.510	9.843	57.067	1.00	19.52
ATOM	17296	O	LEU	2580	47.711	10.316	57.647	1.00	20.18
ATOM	17297	N	GLU	2581	37.840	8.797	57.757	1.00	19.87
ATOM	17298	CA	GLU	2581	37.719	8.313	58.500	1.00	19.88
ATOM	17299	CB	GLU	2581	37.452	7.777	57.611	1.00	20.16
ATOM	17300	CG	GLU	2581	37.189	7.667	58.563	1.00	22.34
ATOM	17301	CD	GLU	2581	37.945	7.777	57.667	1.00	24.52
ATOM	17302	CE1	GLU	2581	37.920	7.777	57.667	1.00	21.81
ATOM	17303	CE2	GLU	2581	37.912	7.777	58.571	1.00	26.78
ATOM	17304	C	GLU	2581	37.974	7.416	58.517	1.00	17.88
ATOM	17305	O	GLU	2581	37.727	6.217	55.780	1.00	18.76
ATOM	17306	N	LYS	2582	37.779	7.983	60.770	1.00	19.77
ATOM	17307	CA	LYS	2582	37.896	7.203	61.957	1.00	19.83
ATOM	17308	CB	LYS	2582	37.805	6.477	62.121	1.00	21.12
ATOM	17309	CG	LYS	2582	36.197	7.671	62.446	1.00	24.18
ATOM	17310	C	LYS	2582	47.091	6.349	62.067	1.00	19.45
ATOM	17311	O	LYS	2582	37.963	5.113	62.112	1.00	21.48
ATOM	17312	N	VAL	2583	47.761	6.994	61.112	1.00	21.07
ATOM	17313	CA	VAL	2583	47.106	6.226	62.141	1.00	23.07
ATOM	17314	CB	VAL	2583	47.717	6.771	60.924	1.00	23.38
ATOM	17315	CG1	VAL	2583	47.590	7.811	60.617	1.00	23.11
ATOM	17316	CG2	VAL	2583	44.609	5.873	61.027	1.00	25.76
ATOM	17317	C	VAL	2583	47.777	6.871	61.387	1.00	22.17
ATOM	17318	O	VAL	2583	47.694	8.073	62.677	1.00	22.61
ATOM	17319	N	PRO	2584	44.132	6.074	64.067	1.00	24.47
ATOM	17320	CA	PRO	2584	47.417	4.681	63.956	1.00	23.47
ATOM	17321	CB	PRO	2584	47.891	6.771	65.167	1.00	24.13
ATOM	17322	CG	PRO	2584	47.745	5.178	65.685	1.00	25.70
ATOM	17323	CG	PRO	2584	47.779	4.377	64.617	1.00	26.17
ATOM	17324	C	PRO	2584	47.708	7.873	64.635	1.00	24.60
ATOM	17325	O	PRO	2584	46.281	7.864	63.645	1.00	23.19
ATOM	17326	N	VAL	2585	47.727	8.953	61.400	1.00	25.57
ATOM	17327	CA	VAL	2585	46.444	10.772	61.925	1.00	23.75
ATOM	17328	CB	VAL	2585	46.511	11.758	60.214	1.00	24.79
ATOM	17329	CG1	VAL	2585	47.077	11.741	61.757	1.00	27.79
ATOM	17330	CG2	VAL	2585	47.123	11.782	60.779	1.00	25.73
ATOM	17331	C	VAL	2585	47.865	9.875	64.343	1.00	25.46
ATOM	17332	O	VAL	2585	48.317	10.317	67.363	1.00	24.77
ATOM	17333	N	GLU	2586	47.563	9.072	67.247	1.00	26.15
ATOM	17334	CA	GLU	2586	49.339	8.303	67.379	1.00	28.54
ATOM	17335	CB	GLU	2586	50.559	7.688	67.373	1.00	30.14
ATOM	17336	CG	GLU	2586	49.580	6.777	68.635	1.00	27.51
ATOM	17337	CD	GLU	2586	49.343	7.675	67.757	1.00	31.22
ATOM	17338	CE1	GLU	2586	49.166	8.777	67.365	1.00	30.10
ATOM	17339	CE2	GLU	2586	49.649	7.777	67.792	1.00	30.25
ATOM	17340	C	GLU	2586	50.064	8.170	68.456	1.00	29.46
ATOM	17341	O	GLU	2586	51.045	8.175	67.769	1.00	27.67
ATOM	17342	N	SER	2587	49.067	7.374	65.017	1.00	27.65
ATOM	17343	CA	LEU	2587	49.177	8.374	67.674	1.00	26.73
ATOM	17344	CB	LEU	2587	48.026	9.771	67.554	1.00	23.21
ATOM	17345	CG	LEU	2587	48.379	11.177	63.711	1.00	27.72
ATOM	17346	CD	LEU	2587	47.099	11.770	69.454	1.00	29.11
ATOM	17347	CE1	LEU	2587	49.043	11.770	68.439	1.00	31.66
ATOM	17348	C	LEU	2587	48.785	7.777	67.654	1.00	27.34
ATOM	17349	O	LEU	2587	49.398	7.777	68.583	1.00	24.48
ATOM	17350	N	ALA	2588	47.848	8.777	60.994	1.00	24.60
ATOM	17351	CA	ALA	2588	47.484	7.777	60.111	1.00	23.79
ATOM	17352	CB	ALA	2588	46.331	10.777	60.712	1.00	25.08
ATOM	17353	C	ALA	2588	47.777	10.777	67.667	1.00	24.14

ATOM	17354	O	ALA	2588	48.839	11.415	58.822	1.00	22.54
ATOM	17355	N	LYS	2589	49.548	10.904	60.901	1.00	24.22
ATOM	17356	CA	LYS	2589	50.760	11.769	60.816	1.00	25.74
ATOM	17357	CB	LYS	2589	51.471	11.751	62.192	1.00	27.20
ATOM	17358	CG	LYS	2589	50.566	12.130	63.545	1.00	32.13
ATOM	17359	CD	LYS	2589	51.399	12.323	64.325	1.00	36.29
ATOM	17360	CE	LYS	2589	50.510	12.750	65.784	1.00	35.55
ATOM	17361	N3	LYS	2589	51.196	13.309	66.817	1.00	39.50
ATOM	17362	C	LYS	2589	51.894	11.036	59.781	1.00	23.37
ATOM	17363	O	LYS	2589	52.171	11.753	58.881	1.00	26.48
ATOM	17364	N	ARG	2590	51.934	9.789	59.915	1.00	23.58
ATOM	17365	CA	ARG	2590	52.812	9.091	59.005	1.00	22.93
ATOM	17366	CB	ARG	2590	51.882	7.173	59.374	1.00	25.56
ATOM	17367	CG	ARG	2590	52.859	7.280	60.861	1.00	27.56
ATOM	17368	CD	ARG	2590	53.951	6.187	61.185	1.00	28.90
ATOM	17369	NE	ARG	2590	53.876	4.938	60.319	1.00	28.63
ATOM	17370	C2	ARG	2590	53.110	3.238	60.716	1.00	30.48
ATOM	17371	NH1	ARG	2590	53.322	3.801	61.801	1.00	30.99
ATOM	17372	NH2	ARG	2590	53.159	2.903	59.301	1.00	30.22
ATOM	17373	C	ARG	2590	52.346	2.138	59.316	1.00	27.50
ATOM	17374	O	ARG	2590	52.151	2.834	58.841	1.00	27.17
ATOM	17375	N	ILE	2591	52.343	9.073	57.843	1.00	26.97
ATOM	17376	CA	ILE	2591	50.197	9.110	55.897	1.00	19.61
ATOM	17377	CB	ILE	2591	49.027	8.873	55.800	1.00	20.34
ATOM	17378	C32	ILE	2591	48.118	8.781	54.800	1.00	21.48
ATOM	17379	C31	ILE	2591	48.371	7.736	56.791	1.00	20.54
ATOM	17380	C34	ILE	2591	47.785	6.638	56.888	1.00	23.53
ATOM	17381	C	ILE	2591	50.191	10.753	55.110	1.00	23.03
ATOM	17382	O	ILE	2591	51.081	10.731	54.361	1.00	18.07
ATOM	17383	N	THR	2592	50.101	11.343	56.107	1.00	16.28
ATOM	17384	CA	THR	2592	50.773	11.343	55.349	1.00	21.08
ATOM	17385	CB	THR	2592	49.343	11.344	56.376	1.00	21.69
ATOM	17386	C31	THR	2592	48.758	11.363	57.030	1.00	21.71
ATOM	17387	C32	THR	2592	49.389	11.343	56.368	1.00	21.53
ATOM	17388	C	THR	2592	51.893	11.346	55.870	1.00	23.76
ATOM	17389	O	THR	2592	52.896	11.333	54.117	1.00	24.12
ATOM	17390	N	GLU	2593	52.876	13.331	56.135	1.00	21.91
ATOM	17391	CA	GLU	2593	54.359	13.337	55.334	1.00	27.67
ATOM	17392	CB	GLU	2593	54.336	13.333	57.371	1.00	29.33
ATOM	17393	C3	GLU	2593	54.427	13.361	58.399	1.00	33.19
ATOM	17394	C3	GLU	2593	53.367	13.330	59.486	1.00	36.93
ATOM	17395	C31	GLU	2593	53.311	13.330	59.397	1.00	38.76
ATOM	17396	C32	GLU	2593	53.349	13.333	60.121	1.00	38.10
ATOM	17397	C	GLU	2593	54.800	13.347	54.664	1.00	26.14
ATOM	17398	O	GLU	2593	55.381	13.331	53.355	1.00	26.29
ATOM	17399	N	ALA	2594	54.372	11.113	54.365	1.00	24.55
ATOM	17400	CA	ALA	2594	54.326	10.334	53.389	1.00	24.61
ATOM	17401	CB	ALA	2594	54.257	9.333	53.301	1.00	24.77
ATOM	17402	C	ALA	2594	54.388	10.333	52.115	1.00	24.72
ATOM	17403	O	ALA	2594	54.381	10.333	51.106	1.00	24.92
ATOM	17404	N	LEU	2595	53.352	11.113	52.369	1.00	23.86
ATOM	17405	CA	LEU	2595	53.359	11.332	50.396	1.00	23.39
ATOM	17406	CB	LEU	2595	53.339	11.332	50.319	1.00	23.16
ATOM	17407	C3	LEU	2595	53.111	11.333	50.351	1.00	23.00
ATOM	17408	C31	LEU	2595	48.692	9.333	50.353	1.00	24.60
ATOM	17409	C32	LEU	2595	50.331	9.333	49.698	1.00	27.49
ATOM	17410	C	LEU	2595	52.636	13.333	50.119	1.00	22.38
ATOM	17411	O	LEU	2595	52.340	13.333	51.130	1.00	22.83
ATOM	17412	N	ALA	2596	52.673	13.333	49.111	1.00	21.91
ATOM	17413	CA	ALA	2596	52.307	14.333	48.380	1.00	20.28
ATOM	17414	CB	ALA	2596	53.676	14.332	47.313	1.00	21.23
ATOM	17415	C	ALA	2596	51.351	15.333	46.333	1.00	21.83
ATOM	17416	ALA	2596	51.301	16.333	45.322	1.00	19.93	
ATOM	17417	N	ILE	2597	50.353	14.337	47.371	1.00	22.33
ATOM	17418	CA	ILE	2597	48.303	14.335	47.314	1.00	22.33
ATOM	17419	CB	ILE	2597	48.333	13.332	47.333	1.00	20.83
ATOM	17420	C31	ILE	2597	48.333	13.333	45.333	1.00	21.33
ATOM	17421	C32	ILE	2597	48.374	12.612	47.837	1.00	20.61
ATOM	17422	C31	ILE	2597	47.352	11.611	47.119	1.00	22.83
ATOM	17423	C	ILE	2597	48.356	13.333	46.333	1.00	23.13
ATOM	17424	O	ILE	2597	48.389	13.733	46.333	1.00	23.63
ATOM	17425	N	PRO	2598	47.618	16.336	49.391	1.00	24.13
ATOM	17426	CD	PRO	2598	47.130	17.134	47.373	1.00	24.13
ATOM	17427	CA	PRO	2598	46.351	16.332	50.333	1.00	24.43
ATOM	17428	CB	PRO	2598	46.158	17.998	49.343	1.00	24.13
ATOM	17429	CG	PRO	2598	45.908	17.716	48.487	1.00	27.13
ATOM	17430	C	PRO	2598	46.379	15.333	50.333	1.00	24.13

ATOM	17431	O	PRO	2598	45.401	14.813	50.218	1.00	23.16
ATOM	17432	N	VAL	2599	46.126	15.440	52.757	1.00	22.78
ATOM	17433	CA	VAL	2599	45.360	14.441	52.984	1.00	22.33
ATOM	17434	CB	VAL	2599	46.286	15.580	53.873	1.00	22.48
ATOM	17435	CG1	VAL	2599	45.475	12.545	54.627	1.00	22.67
ATOM	17436	CG2	VAL	2599	47.350	11.915	53.913	1.00	22.46
ATOM	17437	C	VAL	2599	44.311	13.133	53.657	1.00	23.21
ATOM	17438	O	VAL	2599	44.638	15.979	54.692	1.00	22.11
ATOM	17439	N	ILE	2600	43.648	14.779	52.641	1.00	21.85
ATOM	17440	CA	ILE	2600	41.944	15.360	54.192	1.00	20.32
ATOM	17441	CB	ILE	2600	40.774	15.719	53.459	1.00	19.87
ATOM	17442	CG2	ILE	2600	39.599	16.283	54.169	1.00	20.69
ATOM	17443	CG1	ILE	2600	41.265	16.700	52.809	1.00	22.41
ATOM	17444	CD1	ILE	2600	40.294	16.941	51.262	1.00	23.02
ATOM	17445	C	ILE	2600	41.492	14.742	55.429	1.00	19.49
ATOM	17446	O	ILE	2600	41.199	17.199	55.694	1.00	18.72
ATOM	17447	N	GLY	2601	41.442	14.784	56.690	1.00	19.66
ATOM	17448	CA	GLY	2601	41.353	13.817	57.721	1.00	18.12
ATOM	17449	C	GLY	2601	39.700	14.631	58.421	1.00	18.77
ATOM	17450	O	GLY	2601	39.154	15.135	58.867	1.00	18.90
ATOM	17451	N	ILE	2602	39.155	11.976	58.381	1.00	18.71
ATOM	17452	CA	ILE	2602	37.892	11.948	58.806	1.00	18.62
ATOM	17453	CB	ILE	2602	38.684	11.679	58.971	1.00	20.77
ATOM	17454	CD2	ILE	2602	36.964	11.419	57.721	1.00	21.95
ATOM	17455	CG1	ILE	2602	35.424	11.479	59.318	1.00	24.17
ATOM	17456	CD1	ILE	2602	35.090	12.650	60.431	1.00	27.14
ATOM	17457	C	ILE	2602	38.059	11.913	60.615	1.00	18.71
ATOM	17458	O	ILE	2602	37.675	12.734	60.854	1.00	16.15
ATOM	17459	N	GLY	2603	38.217	11.331	61.801	1.00	16.92
ATOM	17460	CA	GLY	2603	38.431	11.411	62.981	1.00	18.14
ATOM	17461	C	GLY	2603	39.864	10.964	62.831	1.00	18.71
ATOM	17462	O	GLY	2603	40.169	9.821	63.111	1.00	18.69
ATOM	17463	N	ALA	2604	40.743	11.717	62.831	1.00	20.33
ATOM	17464	CA	ALA	2604	42.160	11.563	62.811	1.00	22.46
ATOM	17465	CB	ALA	2604	42.514	13.129	60.731	1.00	21.36
ATOM	17466	C	ALA	2604	43.076	13.431	62.881	1.00	13.62
ATOM	17467	O	ALA	2604	44.292	13.576	63.971	1.00	13.16
ATOM	17468	N	GLY	2605	42.497	14.188	63.681	1.00	11.78
ATOM	17469	CA	GLY	2605	42.281	14.171	64.381	1.00	14.15
ATOM	17470	C	GLY	2605	43.540	15.523	64.581	1.00	13.63
ATOM	17471	O	GLY	2605	43.042	15.636	64.444	1.00	13.74
ATOM	17472	N	ASN	2606	44.311	16.433	64.101	1.00	12.77
ATOM	17473	CA	ASN	2606	44.610	17.436	64.781	1.00	12.84
ATOM	17474	CB	ASN	2606	44.614	18.834	64.678	1.00	14.93
ATOM	17475	CG	ASN	2606	45.751	18.816	65.784	1.00	17.15
ATOM	17476	OD1	ASN	2606	45.935	18.737	66.132	1.00	16.13
ATOM	17477	ND2	ASN	2606	46.511	17.779	67.351	1.00	21.61
ATOM	17478	C	ASN	2606	47.435	17.649	67.644	1.00	12.90
ATOM	17479	O	ASN	2606	48.126	18.680	68.115	1.00	21.27
ATOM	17480	N	VAL	2607	46.491	16.450	67.901	1.00	21.37
ATOM	17481	CA	VAL	2607	47.781	16.264	67.835	1.00	23.66
ATOM	17482	CB	VAL	2607	48.171	17.975	67.443	1.00	25.16
ATOM	17483	CG1	VAL	2607	49.896	17.903	67.813	1.00	30.68
ATOM	17484	CG2	VAL	2607	48.478	18.951	68.461	1.00	28.00
ATOM	17485	C	VAL	2607	47.698	16.210	69.391	1.00	22.15
ATOM	17486	O	VAL	2607	48.701	16.351	69.611	1.00	19.39
ATOM	17487	N	THR	2608	46.489	16.010	69.791	1.00	23.13
ATOM	17488	CA	THR	2608	46.271	15.945	68.351	1.00	18.55
ATOM	17489	CB	THR	2608	44.931	15.247	68.949	1.00	17.13
ATOM	17490	CG1	THR	2608	47.865	15.542	68.671	1.00	17.74
ATOM	17491	CG2	THR	2608	44.958	14.613	69.331	1.00	16.25
ATOM	17492	C	THR	2608	46.121	17.347	68.731	1.00	17.13
ATOM	17493	O	THR	2608	46.299	14.644	68.444	1.00	14.62
ATOM	17494	N	ASP	2609	46.139	17.592	68.414	1.00	18.90
ATOM	17495	CA	ASP	2609	46.433	18.653	68.673	1.00	19.91
ATOM	17496	CB	ASP	2609	46.653	18.564	68.233	1.00	20.89
ATOM	17497	CG	ASP	2609	46.201	17.629	68.143	1.00	22.15
ATOM	17498	OD1	ASP	2609	49.214	18.315	68.550	1.00	25.60
ATOM	17499	OD2	ASP	2609	48.269	16.544	68.682	1.00	25.46
ATOM	17500	C	ASP	2609	45.161	19.386	68.731	1.00	19.73
ATOM	17501	O	ASP	2609	45.951	20.009	68.643	1.00	18.77
ATOM	17502	N	GLY	2610	44.614	18.620	68.754	1.00	19.79
ATOM	17503	CA	GLY	2610	42.703	19.239	68.771	1.00	17.70
ATOM	17504	C	GLY	2610	41.776	18.492	68.646	1.00	14.64
ATOM	17505	O	GLY	2610	41.851	17.457	67.234	1.00	17.45
ATOM	17506	N	GLN	2611	46.131	20.824	68.752	1.00	17.59
ATOM	17507	CA	GLN	2611	46.436	21.899	68.916	1.00	17.69

ATOM	17508	CR	GLN	2611	39.268	19.190	58.853	1.00	19.92
ATOM	17509	CS	GLN	2611	40.465	19.210	59.799	1.00	20.42
ATOM	17510	CE	GLN	2611	40.846	17.819	60.291	1.00	21.00
ATOM	17511	CE1	GLN	2611	39.984	17.015	60.627	1.00	24.19
ATOM	17512	NE2	GLN	2611	42.146	17.561	60.354	1.00	16.83
ATOM	17513	C	GLN	2611	38.164	18.341	56.800	1.00	17.61
ATOM	17514	N	GLN	2611	37.911	19.151	55.905	1.00	17.66
ATOM	17515	N	ILE	2612	37.327	18.239	57.168	1.00	20.61
ATOM	17516	CA	ILE	2612	36.011	18.259	56.557	1.00	21.18
ATOM	17517	CP	ILE	2612	36.047	16.279	55.336	1.00	21.95
ATOM	17518	CS2	ILE	2612	36.253	14.825	55.751	1.00	17.51
ATOM	17519	CS1	ILE	2612	34.747	16.421	54.542	1.00	21.60
ATOM	17520	CD1	ILE	2612	34.855	15.977	53.097	1.00	21.16
ATOM	17521	C	ILE	2612	35.043	16.724	57.611	1.00	21.10
ATOM	17522	O	ILE	2612	35.435	16.034	58.559	1.00	21.34
ATOM	17523	N	LEU	2613	36.774	17.672	57.458	1.00	21.17
ATOM	17524	CA	LEU	2613	37.774	18.644	58.416	1.00	21.65
ATOM	17525	CB	LEU	2613	37.931	17.476	59.616	1.00	31.09
ATOM	17526	CG	LEU	2613	37.341	18.923	61.010	1.00	34.60
ATOM	17527	CD1	LEU	2613	37.934	17.970	62.111	1.00	34.14
ATOM	17528	CD2	LEU	2613	39.961	16.873	61.010	1.00	31.19
ATOM	17529	C	LEU	2613	36.382	18.842	57.821	1.00	21.34
ATOM	17530	O	LEU	2613	36.143	17.767	57.544	1.00	24.17
ATOM	17531	N	VAL	2614	36.450	18.061	58.173	1.00	21.78
ATOM	17532	CA	VAL	2614	24.087	16.673	57.678	1.00	21.65
ATOM	17533	CB	VAL	2614	24.210	14.890	58.141	1.00	21.19
ATOM	17534	CD1	VAL	2614	26.793	15.617	57.567	1.00	21.11
ATOM	17535	CD2	VAL	2614	26.425	13.772	57.871	1.00	21.66
ATOM	17536	C	VAL	2614	26.523	17.855	58.218	1.00	21.34
ATOM	17537	O	VAL	2614	26.502	17.130	59.449	1.00	26.11
ATOM	17538	N	MET	2615	26.985	16.111	57.344	1.00	21.15
ATOM	17539	CA	MET	2615	27.547	15.122	57.713	1.00	21.18
ATOM	17540	CE	MET	2615	26.987	23.474	56.546	1.00	21.69
ATOM	17541	CG	MET	2615	25.813	19.764	55.890	1.00	18.65
ATOM	17542	CH	MET	2615	24.656	20.775	55.265	1.00	18.12
ATOM	17543	C	MET	2615	25.544	20.960	56.690	1.00	18.17
ATOM	17544	O	MET	2615	26.440	19.893	53.896	1.00	21.14
ATOM	17545	C	MET	2615	26.255	20.111	52.632	1.00	21.64
ATOM	17546	N	HIS	2616	25.701	18.188	53.776	1.00	21.17
ATOM	17547	CA	HIS	2616	24.927	15.170	53.707	1.00	21.14
ATOM	17548	CE	HIS	2616	23.741	16.960	53.314	1.00	21.11
ATOM	17549	CG	HIS	2616	23.212	17.181	58.020	1.00	18.70
ATOM	17550	CD2	HIS	2616	23.417	17.671	56.743	1.00	18.17
ATOM	17551	ND1	HIS	2616	21.736	18.607	57.945	1.00	20.15
ATOM	17552	CE1	HIS	2616	21.386	17.855	56.729	1.00	18.61
ATOM	17553	NE2	HIS	2616	22.389	17.174	55.945	1.00	20.61
ATOM	17554	C	HIS	2616	25.122	17.915	61.161	1.00	21.40
ATOM	17555	O	HIS	2616	24.420	18.766	62.175	1.00	21.34
ATOM	17556	N	ASP	2617	26.329	17.179	61.322	1.00	24.40
ATOM	17557	CA	ASP	2617	26.680	17.158	62.664	1.00	28.05
ATOM	17558	CB	ASP	2617	27.618	16.060	62.677	1.00	29.34
ATOM	17559	CG	ASP	2617	27.111	14.713	62.396	1.00	31.71
ATOM	17560	GD1	ASP	2617	26.139	14.310	63.088	1.00	30.70
ATOM	17561	GD2	ASP	2617	27.518	14.612	61.487	1.00	31.71
ATOM	17562	C	ASP	2617	27.135	18.473	63.153	1.00	24.63
ATOM	17563	O	ASP	2617	27.681	18.619	64.156	1.00	31.34
ATOM	17564	N	ALA	2618	27.328	19.373	62.117	1.00	18.76
ATOM	17565	CA	ALA	2618	28.177	20.573	62.561	1.00	18.10
ATOM	17566	CB	ALA	2618	29.111	21.152	61.339	1.00	19.32
ATOM	17567	C	ALA	2618	27.606	21.435	63.116	1.00	18.19
ATOM	17568	O	ALA	2618	28.929	21.810	64.707	1.00	18.61
ATOM	17569	N	PRO	2619	28.177	21.171	62.921	1.00	18.17
ATOM	17570	CA	PRO	2619	28.111	22.130	63.436	1.00	18.16
ATOM	17571	CB	PRO	2619	24.534	22.962	62.280	1.00	18.16
ATOM	17572	CG	PRO	2619	25.134	23.145	61.174	1.00	18.11
ATOM	17573	GD1	PRO	2619	24.437	21.316	61.452	1.00	18.62
ATOM	17574	GD2	PRO	2619	24.174	23.119	59.952	1.00	18.68
ATOM	17575	CR1	PRO	2619	27.177	24.314	60.437	1.00	18.78
ATOM	17576	CR2	PRO	2619	25.969	23.541	58.411	1.00	18.19
ATOM	17577	CR	PRO	2619	25.547	24.345	59.114	1.00	18.19
ATOM	17578	C	PRO	2619	24.359	21.844	64.423	1.00	21.67
ATOM	17579	O	PRO	2619	23.747	22.173	64.642	1.00	18.19
ATOM	17580	N	GLY	2620	24.356	20.156	65.423	1.00	18.19
ATOM	17581	CA	GLY	2620	24.569	19.845	65.156	1.00	18.14
ATOM	17582	C	GLY	2620	25.119	19.493	66.490	1.00	18.07
ATOM	17583	O	GLY	2620	24.115	19.214	66.153	1.00	18.19
ATOM	17584	N	LEU	2621	24.134	18.147	64.111	1.00	18.19

ATOM	17585	CA	ILE	2621	21.176	19.046	63.589	1.00	29.00
ATOM	17586	CR	ILE	2621	21.170	19.248	62.057	1.00	26.35
ATOM	17587	CG2	ILF	2621	19.867	18.713	61.464	1.00	25.62
ATOM	17588	CG1	ILF	2621	21.332	20.730	61.739	1.00	24.08
ATOM	17589	CD1	ILF	2621	21.695	21.009	60.295	1.00	24.54
ATOM	17590	C	ILF	2621	20.900	18.581	61.895	1.00	30.31
ATOM	17591	C	ILF	2621	19.780	17.209	64.224	1.00	29.60
ATOM	17592	N	THR	2622	21.956	16.756	63.799	1.00	32.59
ATOM	17593	CA	THR	2622	21.784	15.849	64.053	1.00	35.67
ATOM	17594	CP	THR	2622	23.035	14.556	63.166	1.00	35.42
ATOM	17595	CD1	THR	2622	24.141	14.813	64.434	1.00	36.19
ATOM	17596	CD2	THR	2622	23.407	15.605	62.118	1.00	31.84
ATOM	17597	C	THR	2622	21.581	15.057	63.155	1.00	38.18
ATOM	17598	O	THR	2622	21.211	15.549	63.582	1.00	38.40
ATOM	17599	N	GLA	2623	20.571	14.216	63.817	1.00	41.10
ATOM	17600	CA	GLY	2623	20.287	13.834	63.184	1.00	46.07
ATOM	17601	C	GLA	2623	21.721	14.664	63.139	1.00	49.46
ATOM	17602	O	GLY	2623	20.735	15.854	63.842	1.00	50.21
ATOM	17603	N	GLA	2624	21.685	13.960	63.135	1.00	51.80
ATOM	17604	CA	GLA	2624	21.170	14.661	63.111	1.00	53.86
ATOM	17605	C	GLA	2624	21.736	14.666	63.118	1.00	53.87
ATOM	17606	O	GLA	2624	24.670	14.811	63.986	1.00	56.17
ATOM	17607	N	HLA	2625	21.819	15.262	63.141	1.00	59.75
ATOM	17608	CA	HLA	2625	21.268	11.087	61.264	1.00	56.49
ATOM	17609	CB	HLA	2625	24.817	10.342	61.852	1.00	58.60
ATOM	17610	CD	HLA	2625	23.127	10.344	61.678	1.00	61.61
ATOM	17611	CE	HLA	2625	21.959	10.221	63.012	1.00	62.23
ATOM	17612	CG1	HLA	2625	23.851	11.358	63.776	1.00	61.65
ATOM	17613	CG2	HLA	2625	21.355	11.164	63.769	1.00	62.89
ATOM	17614	CH2	HLA	2625	21.738	10.561	64.406	1.00	61.05
ATOM	17615	C	HLA	2625	21.267	11.359	63.104	1.00	55.11
ATOM	17616	O	HLA	2625	20.730	10.851	63.061	1.00	55.29
ATOM	17617	N	ILB	2626	20.568	11.042	63.152	1.00	55.22
ATOM	17618	CA	ILB	2626	20.157	10.111	61.736	1.00	50.84
ATOM	17619	CB	ILB	2626	21.156	13.566	61.165	1.00	51.18
ATOM	17620	CG2	ILB	2626	20.712	12.000	61.123	1.00	53.29
ATOM	17621	CG1	ILB	2626	21.857	11.718	61.158	1.00	50.33
ATOM	17622	CD1	ILB	2626	20.580	10.114	61.151	1.00	51.34
ATOM	17623	C	ILB	2626	21.946	11.358	61.184	1.00	47.86
ATOM	17624	O	ILB	2626	20.835	11.060	61.112	1.00	47.96
ATOM	17625	N	PRO	2627	20.189	11.063	61.159	1.00	45.93
ATOM	17626	CD	PRO	2627	20.901	12.766	61.135	1.00	45.13
ATOM	17627	CA	PRO	2627	30.436	11.763	61.116	1.00	43.64
ATOM	17628	CB	PRO	2627	30.801	10.064	61.134	1.00	43.80
ATOM	17629	CG	PRO	2627	20.264	12.068	61.243	1.00	45.31
ATOM	17630	C	PRO	2627	31.533	11.302	61.162	1.00	41.87
ATOM	17631	O	PRO	2627	31.599	13.116	61.667	1.00	41.53
ATOM	17632	N	LYS	2628	30.590	11.245	61.432	1.00	40.14
ATOM	17633	CA	LYS	2628	30.486	11.440	61.154	1.00	39.09
ATOM	17634	CB	LYS	2628	31.362	10.755	60.864	1.00	41.61
ATOM	17635	CG	LYS	2628	34.181	10.590	71.340	1.00	44.14
ATOM	17636	CD	LYS	2628	30.661	9.998	71.567	1.00	46.92
ATOM	17637	CE	LYS	2628	32.359	9.883	73.051	1.00	47.79
ATOM	17638	NZ	LYS	2628	30.766	9.430	73.304	1.00	49.12
ATOM	17639	C	LYS	2628	31.872	12.711	63.476	1.00	46.45
ATOM	17640	O	LYS	2628	34.005	13.371	69.665	1.00	46.12
ATOM	17641	N	PHE	2629	31.531	12.340	67.193	1.00	32.52
ATOM	17642	CA	PHE	2629	30.337	13.138	68.123	1.00	29.15
ATOM	17643	CB	PHE	2629	30.876	12.321	65.157	1.00	29.64
ATOM	17644	CG	PHE	2629	34.772	11.755	61.115	1.00	29.68
ATOM	17645	CD1	PHE	2629	31.088	11.561	63.113	1.00	29.81
ATOM	17646	CD2	PHE	2629	31.431	12.431	61.113	1.00	32.24
ATOM	17647	CE1	PHE	2629	30.635	11.036	62.553	1.00	32.58
ATOM	17648	CE2	PHE	2629	30.433	9.875	63.550	1.00	32.17
ATOM	17649	CE3	PHE	2629	31.731	11.658	61.661	1.00	31.51
ATOM	17650	C	PHE	2629	31.742	14.375	63.641	1.00	31.59
ATOM	17651	O	PHE	2629	30.926	13.515	63.135	1.00	24.55
ATOM	17652	N	ALA	2630	33.432	14.537	65.869	1.00	34.68
ATOM	17653	CA	ALA	2630	21.720	15.751	65.388	1.00	34.35
ATOM	17654	CB	ALA	2630	31.841	15.759	64.856	1.00	34.15
ATOM	17655	C	ALA	2630	21.555	16.821	66.473	1.00	33.15
ATOM	17656	O	ALA	2630	32.919	16.539	67.659	1.00	33.58
ATOM	17657	N	LYS	2631	32.152	18.043	66.046	1.00	33.55
ATOM	17658	CA	LYS	2631	32.039	19.164	66.955	1.00	33.25
ATOM	17659	CB	LYS	2631	31.519	19.993	67.105	1.00	33.24
ATOM	17660	CG	LYS	2631	33.137	21.250	67.947	1.00	33.56
ATOM	17661	CD	LYS	2631	34.435	21.950	68.159	1.00	33.56

AT-M	17662	CE	LYS	2631	34.227	23.261	68.968	1.00	28.22
AT-M	17663	NZ	LYS	2631	35.499	24.010	69.116	1.00	29.85
AT-M	17664	C	LYS	2631	30.921	20.068	66.444	1.00	22.92
AT-M	17665	O	LYS	2631	30.895	20.422	65.761	1.00	21.69
AT-M	17666	N	ASN	2632	30.015	20.476	67.345	1.00	23.42
AT-M	17667	CA	ASN	2632	28.889	21.310	67.026	1.00	22.87
AT-M	17668	CB	ASN	2632	27.771	21.221	68.058	1.00	22.06
AT-M	17669	CG	ASN	2632	24.566	21.005	67.791	1.00	22.77
AT-M	17670	OD1	ASN	2632	24.626	22.943	66.994	1.00	23.52
AT-M	17671	ND2	ASN	2632	21.453	21.716	68.475	1.00	20.23
AT-M	17672	C	ASN	2632	29.284	21.748	67.090	1.00	21.32
AT-M	17673	O	ASN	2632	29.559	23.706	68.167	1.00	21.04
AT-M	17674	N	PHE	2633	29.615	23.748	65.948	1.00	20.88
AT-M	17675	CA	PHE	2633	30.103	24.704	65.821	1.00	21.92
AT-M	17676	CB	PHE	2633	30.879	24.980	64.578	1.00	21.76
AT-M	17677	CG	PHE	2633	32.180	24.145	64.491	1.00	25.62
AT-M	17678	CD1	PHE	2633	32.224	21.938	64.020	1.00	25.78
AT-M	17679	CD2	PHE	2633	31.767	24.865	64.983	1.00	25.59
AT-M	17680	CE1	PHE	2633	30.421	23.779	65.003	1.00	25.39
AT-M	17681	CE2	PHE	2633	34.561	24.776	64.003	1.00	24.67
AT-M	17682	CH	PHE	2633	34.597	22.781	63.481	1.00	27.61
AT-M	17683	C	PHE	2633	31.890	21.747	66.000	1.00	21.51
AT-M	17684	O	PHE	2633	35.197	26.933	66.200	1.00	27.07
AT-M	17685	N	LEU	2634	31.748	21.776	69.107	1.00	20.96
AT-M	17686	CA	LEU	2634	31.621	23.116	68.807	1.00	25.40
AT-M	17687	CB	LEU	2634	33.531	21.808	69.188	1.00	25.40
AT-M	17688	CG	LEU	2634	34.071	26.438	65.717	1.00	19.60
AT-M	17689	CH1	LEU	2634	34.167	21.736	69.909	1.00	19.80
AT-M	17690	CH2	LEU	2634	32.876	21.601	69.189	1.00	17.40
AT-M	17691	C	LEU	2634	30.537	23.607	67.000	1.00	28.16
AT-M	17692	O	LEU	2634	34.108	21.748	67.000	1.00	27.90
AT-M	17693	N	ALA	2635	26.516	19.502	68.384	1.00	30.50
AT-M	17694	CA	ALA	2635	26.326	11.750	69.900	1.00	36.08
AT-M	17695	CB	ALA	2635	26.545	14.134	70.300	1.00	35.24
AT-M	17696	C	ALA	2635	27.177	18.801	70.300	1.00	40.21
AT-M	17697	O	ALA	2635	28.965	17.709	70.300	1.00	41.34
AT-M	17698	N	GLU	2636	28.428	18.002	69.700	1.00	43.50
AT-M	17699	CA	GLU	2636	29.130	17.738	70.100	1.00	47.27
AT-M	17700	CB	GLU	2636	29.835	17.700	69.500	1.00	49.64
AT-M	17701	CG	GLU	2636	31.120	21.800	69.700	1.00	52.15
AT-M	17702	CH	GLU	2636	31.134	21.402	71.100	1.00	53.80
AT-M	17703	CE1	GLU	2636	30.830	19.805	72.000	1.00	55.93
AT-M	17704	CE2	GLU	2636	32.652	14.804	71.000	1.00	54.50
AT-M	17705	C	GLU	2636	29.183	19.147	69.600	1.00	47.91
AT-M	17706	O	GLU	2636	30.017	20.057	69.645	1.00	48.49
AT-M	17707	N	THR	2637	27.927	19.706	69.300	1.00	48.71
AT-M	17708	CA	THR	2637	27.418	20.705	68.700	1.00	49.07
AT-M	17709	CB	THR	2637	28.051	20.304	67.300	1.00	48.89
AT-M	17710	CG1	THR	2637	27.518	21.100	66.300	1.00	49.28
AT-M	17711	CG2	THR	2637	27.690	19.509	66.300	1.00	49.85
AT-M	17712	C	THR	2637	25.894	20.501	68.600	1.00	47.69
AT-M	17713	O	THR	2637	25.130	19.744	69.300	1.00	48.21
AT-M	17714	N	GLY	2638	25.730	21.700	67.700	1.00	45.54
AT-M	17715	CA	GLY	2638	23.898	21.300	67.500	1.00	43.10
AT-M	17716	C	GLY	2638	23.555	21.000	66.062	1.00	40.35
AT-M	17717	O	GLY	2638	21.403	21.800	65.749	1.00	40.40
AT-M	17718	N	ASP	2639	23.567	21.400	65.204	1.00	37.74
AT-M	17719	CA	ASP	2639	24.411	21.700	63.709	1.00	35.00
AT-M	17720	CB	ASP	2639	25.025	23.110	63.469	1.00	33.04
AT-M	17721	CG	ASP	2639	24.888	21.500	62.078	1.00	31.00
AT-M	17722	CH1	ASP	2639	25.575	23.110	61.405	1.00	30.70
AT-M	17723	CH2	ASP	2639	25.500	23.200	61.600	1.00	30.00
AT-M	17724	C	ASP	2639	25.117	20.600	62.900	1.00	30.05
AT-M	17725	O	ASP	2639	26.278	21.300	63.204	1.00	30.44
AT-M	17726	N	ILE	2640	24.499	23.110	61.985	1.00	29.72
AT-M	17727	CA	ILE	2640	25.009	24.000	61.149	1.00	29.70
AT-M	17728	CB	ILE	2640	23.959	24.400	60.176	1.00	29.75
AT-M	17729	CG1	ILE	2640	24.657	27.620	59.111	1.00	23.48
AT-M	17730	CG2	ILE	2640	23.450	27.000	60.969	1.00	21.50
AT-M	17731	CH1	ILE	2640	21.751	27.100	60.100	1.00	23.00
AT-M	17732	C	ILE	2640	23.704	24.000	60.350	1.00	25.00
AT-M	17733	O	ILE	2640	27.551	24.600	60.100	1.00	25.00
AT-M	17734	N	ARG	2641	23.061	33.700	59.250	1.00	24.00
AT-M	17735	CA	ARG	2641	23.149	31.000	58.900	1.00	23.10
AT-M	17736	CB	ARG	2641	23.700	32.640	59.000	1.00	22.00
AT-M	17737	O	ARG	2641	23.800	27.000	62.000	1.00	20.00
AT-M	17738	C	ARG	2641	23.400	32.000	58.000	1.00	20.00

ATOM	17739	NE	ARG	2641	24.650	31.441	55.710	1.00	27.34
ATOM	17740	CZ	ARG	2641	23.453	32.863	55.166	1.00	26.81
ATOM	17741	NH1	ARG	2641	22.856	32.466	56.183	1.00	25.50
ATOM	17742	NH2	ARG	2641	23.854	32.674	53.996	1.00	28.36
ATOM	17743	C	ARG	2641	28.746	31.631	59.917	1.00	23.31
ATOM	17744	O	ARG	2641	23.508	31.524	59.511	1.00	20.74
ATOM	17745	N	ALA	2642	28.047	31.590	61.162	1.00	27.35
ATOM	17746	CA	ALA	2642	29.089	22.753	62.143	1.00	25.68
ATOM	17747	CB	ALA	2642	23.484	32.881	63.404	1.00	26.14
ATOM	17748	C	ALA	2642	23.785	30.929	62.484	1.00	26.20
ATOM	17749	O	ALA	2642	30.979	30.873	62.687	1.00	26.09
ATOM	17750	N	ALA	2643	28.972	29.861	62.138	1.00	24.31
ATOM	17751	CA	ALA	2643	23.504	18.538	62.847	1.00	24.08
ATOM	17752	CB	ALA	2643	28.360	17.535	62.989	1.00	25.00
ATOM	17753	C	ALA	2643	30.400	18.098	62.738	1.00	23.31
ATOM	17754	O	ALA	2643	31.491	17.492	62.608	1.00	22.50
ATOM	17755	N	VAL	2644	33.107	18.341	60.494	1.00	21.85
ATOM	17756	CA	VAL	2644	33.931	18.003	59.340	1.00	23.16
ATOM	17757	CB	VAL	2644	37.162	28.761	59.319	1.00	23.81
ATOM	17758	CG1	VAL	2644	31.191	18.148	59.180	1.00	21.87
ATOM	17759	CG2	VAL	2644	28.945	17.737	59.317	1.00	24.17
ATOM	17760	C	VAL	2644	30.787	28.781	59.442	1.00	21.21
ATOM	17761	O	VAL	2644	32.834	18.137	59.130	1.00	21.83
ATOM	17762	N	ARG	2645	32.737	30.788	60.689	1.00	24.05
ATOM	17763	CA	ARG	2645	32.178	30.740	60.436	1.00	27.18
ATOM	17764	CB	ARG	2645	32.136	32.131	61.094	1.00	21.32
ATOM	17765	CG	ARG	2645	32.144	37.913	59.832	1.00	28.56
ATOM	17766	CD	ARG	2645	31.296	34.760	59.187	1.00	31.06
ATOM	17767	NE	ARG	2645	31.361	34.739	60.139	1.00	34.28
ATOM	17768	CZ	ARG	2645	32.763	35.113	60.116	1.00	36.23
ATOM	17769	NH1	ARG	2645	28.722	35.701	59.836	1.00	34.78
ATOM	17770	NH2	ARG	2645	28.137	35.733	60.117	1.00	37.25
ATOM	17771	C	ARG	2645	34.343	30.963	61.836	1.00	37.18
ATOM	17772	O	ARG	2645	35.761	30.117	60.849	1.00	36.75
ATOM	17773	N	GLN	2646	32.707	39.913	62.032	1.00	37.34
ATOM	17774	CA	GLN	2646	34.411	39.763	63.733	1.00	37.15
ATOM	17775	CB	GLN	2646	32.128	39.143	63.734	1.00	31.32
ATOM	17776	CG	GLN	2646	34.781	38.733	63.136	1.00	34.80
ATOM	17777	CD	GLN	2646	32.781	38.737	63.737	1.00	41.82
ATOM	17778	OE1	GLN	2646	32.374	38.743	63.778	1.00	43.37
ATOM	17779	NE2	GLN	2646	33.703	37.713	63.112	1.00	43.04
ATOM	17780	C	GLN	2646	35.187	38.673	63.739	1.00	37.46
ATOM	17781	O	GLN	2646	36.351	37.823	63.735	1.00	34.55
ATOM	17782	N	TYR	2647	34.406	37.321	63.135	1.00	34.93
ATOM	17783	CA	TYR	2647	34.346	35.956	61.719	1.00	37.35
ATOM	17784	CB	TYR	2647	33.841	35.113	61.934	1.00	31.15
ATOM	17785	CG	TYR	2647	34.889	33.963	63.134	1.00	31.81
ATOM	17786	CD1	TYR	2647	35.117	31.997	63.838	1.00	37.32
ATOM	17787	OE1	TYR	2647	35.839	31.983	63.131	1.00	31.80
ATOM	17788	CD2	TYR	2647	34.113	33.763	58.846	1.00	21.36
ATOM	17789	OE2	TYR	2647	34.855	32.637	58.160	1.00	21.37
ATOM	17790	CZ	TYR	2647	35.140	21.673	57.327	1.00	24.37
ATOM	17791	OH	TYR	2647	35.742	20.353	57.149	1.00	21.37
ATOM	17792	C	TYR	2647	35.133	26.131	60.861	1.00	23.53
ATOM	17793	O	TYR	2647	36.313	26.343	60.964	1.00	23.34
ATOM	17794	N	MET	2648	36.113	27.953	59.009	1.00	23.64
ATOM	17795	CA	MET	2648	37.237	27.343	59.033	1.00	21.39
ATOM	17796	CB	MET	2648	36.341	28.368	57.968	1.00	21.61
ATOM	17797	CG	MET	2648	35.743	27.868	57.000	1.00	23.22
ATOM	17798	SD	MET	2648	37.131	34.773	56.013	1.00	23.37
ATOM	17799	CE	MET	2648	36.341	23.523	54.933	1.00	23.14
ATOM	17800	C	MET	2648	37.313	27.333	59.433	1.00	21.37
ATOM	17801	O	MET	2648	38.073	27.333	59.133	1.00	21.36
ATOM	17802	N	ALA	2649	37.133	23.533	60.863	1.00	23.32
ATOM	17803	CA	ALA	2649	38.183	23.303	61.633	1.00	23.11
ATOM	17804	CB	ALA	2649	38.603	30.313	62.573	1.00	23.13
ATOM	17805	C	ALA	2649	38.903	23.113	62.533	1.00	23.13
ATOM	17806	O	ALA	2649	41.133	23.133	62.533	1.00	23.14
ATOM	17807	N	GLU	2650	38.133	27.333	63.033	1.00	23.13
ATOM	17808	CA	GLU	2650	38.713	26.333	64.133	1.00	23.13
ATOM	17809	CB	GLU	2650	38.623	25.633	64.983	1.00	23.13
ATOM	17810	CG	GLU	2650	38.203	26.483	66.203	1.00	23.13
ATOM	17811	CD	GLU	2650	37.113	25.793	67.014	1.00	23.13
ATOM	17812	OE1	GLU	2650	37.153	24.533	67.173	1.00	23.13
ATOM	17813	OE2	GLU	2650	36.273	26.513	67.593	1.00	33.13
ATOM	17814	C	GLU	2650	40.533	25.133	63.413	1.00	23.13
ATOM	17815	O	GLU	2650	41.483	24.133	63.033	1.00	23.13

ATOM	17-16	N	VAL	2651	40.181	25.021	62.168	1.00	26.19
ATOM	17-17	CA	VAL	2651	40.914	24.042	61.280	1.00	25.27
ATOM	17-18	CB	VAL	2651	40.163	23.681	60.078	1.00	24.96
ATOM	17-19	CG1	VAL	2651	41.063	22.849	59.179	1.00	23.43
ATOM	17-20	CG2	VAL	2651	38.891	22.960	60.411	1.00	23.49
ATOM	17-21	C	VAL	2651	42.296	24.576	61.010	1.00	25.94
ATOM	17-22	O	VAL	2651	45.279	23.816	61.032	1.00	26.81
ATOM	17-23	N	GLU	2652	42.362	25.863	60.083	1.00	27.40
ATOM	17-24	CA	GLU	2652	43.616	26.493	60.193	1.00	30.89
ATOM	17-25	CB	GLU	2652	43.343	27.865	59.065	1.00	31.63
ATOM	17-26	CG	GLU	2652	44.595	28.516	59.129	1.00	36.32
ATOM	17-27	CD	GLU	2652	44.082	29.686	58.159	1.00	39.22
ATOM	17-28	CE1	GLU	2652	45.223	30.274	57.715	1.00	40.91
ATOM	17-29	CE2	GLU	2652	43.091	29.885	57.836	1.00	40.55
ATOM	17-30	C	GLU	2652	44.614	26.658	61.438	1.00	32.09
ATOM	17-31	O	GLU	2652	45.791	26.305	61.190	1.00	32.01
ATOM	17-32	N	SER	2653	44.146	27.115	62.580	1.00	34.17
ATOM	17-33	CA	SER	2653	45.026	27.510	63.727	1.00	36.02
ATOM	17-34	CB	SER	2653	44.427	28.318	64.087	1.00	34.04
ATOM	17-35	CG	SER	2653	44.357	29.613	64.066	1.00	41.62
ATOM	17-36	C	SER	2653	45.317	29.311	64.454	1.00	39.06
ATOM	17-37	O	SER	2653	46.243	29.913	65.162	1.00	36.58
ATOM	17-38	N	TYR	2654	44.578	24.851	64.168	1.00	33.11
ATOM	17-39	CA	TYR	2654	44.754	23.679	64.789	1.00	29.91
ATOM	17-40	C	TYR	2654	42.918	21.712	66.611	1.00	27.18
ATOM	17-41	O	TYR	2654	44.111	21.102	66.025	1.00	20.75
ATOM	17-42	N	VAL	2655	41.999	24.119	60.776	1.00	26.05
ATOM	17-43	CA	VAL	2655	42.119	24.610	60.129	1.00	24.70
ATOM	17-44	CB	VAL	2655	41.290	25.177	62.832	1.00	25.65
ATOM	17-45	CG1	VAL	2655	40.191	24.948	68.833	1.00	27.96
ATOM	17-46	CG2	VAL	2655	42.196	26.371	68.799	1.00	26.98
ATOM	17-47	C	VAL	2655	41.190	21.839	67.188	1.00	23.05
ATOM	17-48	O	VAL	2655	40.821	21.135	68.121	1.00	19.84
ATOM	17-49	N	TYR	2656	40.807	21.644	68.330	1.00	23.11
ATOM	17-50	CA	TYR	2656	39.926	21.541	69.559	1.00	23.29
ATOM	17-51	CB	TYR	2656	38.554	21.064	69.163	1.00	24.18
ATOM	17-52	CG	TYR	2656	37.625	20.607	64.795	1.00	26.15
ATOM	17-53	CD1	TYR	2656	37.653	20.042	69.795	1.00	26.74
ATOM	17-54	CD2	TYR	2656	36.072	19.600	69.889	1.00	27.18
ATOM	17-55	CD3	TYR	2656	37.384	20.646	63.450	1.00	26.60
ATOM	17-56	CE1	TYR	2656	36.602	19.543	63.760	1.00	26.10
ATOM	17-57	CE2	TYR	2656	36.052	18.774	64.048	1.00	28.77
ATOM	17-58	OH	TYR	2656	35.298	17.863	63.093	1.00	29.76
ATOM	17-59	C	TYR	2656	40.539	20.739	64.120	1.00	32.07
ATOM	17-60	O	TYR	2656	40.371	21.378	63.719	1.00	31.40
ATOM	17-61	N	PRO	2657	40.575	19.417	64.559	1.00	23.11
ATOM	17-62	CD	PRO	2657	40.439	19.474	63.551	1.00	25.50
ATOM	17-63	CA	PRO	2657	40.064	18.632	65.827	1.00	25.15
ATOM	17-64	CB	PRO	2657	39.863	17.266	65.193	1.00	25.48
ATOM	17-65	CG	PRO	2657	40.930	17.153	64.167	1.00	26.47
ATOM	17-66	C	PRO	2657	40.987	14.704	67.747	1.00	26.33
ATOM	17-67	O	PRO	2657	42.194	14.937	66.734	1.00	24.35
ATOM	17-68	N	GLY	2658	40.402	14.451	68.712	1.00	28.19
ATOM	17-69	CA	GLY	2658	41.175	14.434	69.135	1.00	29.27
ATOM	17-70	C	GLY	2658	41.405	16.330	69.170	1.00	31.15
ATOM	17-71	O	GLY	2658	41.371	14.038	69.735	1.00	29.16
ATOM	17-72	N	GLU	2659	42.039	14.835	71.025	1.00	31.72
ATOM	17-73	CA	GLU	2659	42.328	15.136	71.766	1.00	33.20
ATOM	17-74	CB	GLU	2659	43.166	15.638	72.845	1.00	35.43
ATOM	17-75	CG	GLU	2659	43.689	14.319	73.413	1.00	38.17
ATOM	17-76	CD	GLU	2659	44.588	13.735	72.776	1.00	40.89
ATOM	17-77	CE1	GLU	2659	44.983	12.330	72.542	1.00	41.36
ATOM	17-78	CE2	GLU	2659	45.119	11.115	71.882	1.00	41.00
ATOM	17-79	C	GLU	2659	41.013	11.716	71.374	1.00	34.45
ATOM	17-80	O	GLU	2659	41.917	13.114	71.823	1.00	34.33
ATOM	17-81	N	GLU	2660	39.961	13.484	72.793	1.00	41.34
ATOM	17-82	CA	GLU	2660	38.687	14.261	72.767	1.00	41.69
ATOM	17-83	CB	GLU	2660	37.738	13.899	73.136	1.00	41.58
ATOM	17-84	CG	GLU	2660	38.411	12.663	73.218	1.00	41.67
ATOM	17-85	CD	GLU	2660	38.808	11.147	72.339	1.00	43.50
ATOM	17-86	CE1	GLU	2660	37.741	10.737	72.180	1.00	43.63
ATOM	17-87	CE2	GLU	2660	38.057	10.409	72.727	1.00	44.50
ATOM	17-88	C	GLU	2660	38.057	14.318	71.753	1.00	38.13
ATOM	17-89	O	GLU	2660	38.145	13.492	71.987	1.00	38.50
ATOM	17-90	N	HIS	2661	38.526	14.827	70.095	1.00	41.39
ATOM	17-91	CA	HIS	2661	38.010	14.415	68.792	1.00	39.37
ATOM	17-92	CB	HIS	2661	37.737	13.843	67.968	1.00	38.29

ATOM	17893	CG	HIS	2661	36.937	16.708	63.537	1.00	29.26
ATOM	17894	CD2	HIS	2661	37.231	17.984	63.814	1.00	28.56
ATOM	17895	ND1	HIS	2661	35.617	16.517	63.668	1.00	29.92
ATOM	17896	CF1	HIS	2661	35.176	17.630	63.291	1.00	29.59
ATOM	17897	NE2	HIS	2661	36.088	18.535	63.411	1.00	28.86
ATOM	17898	C	HIS	2661	38.983	13.480	63.636	1.00	28.74
ATOM	17899	O	HIS	2661	38.757	14.119	63.914	1.00	28.41
ATOM	17900	N	SEP	2662	40.055	13.088	63.701	1.00	27.65
ATOM	17901	CA	SEP	2662	41.077	12.216	63.171	1.00	27.15
ATOM	17902	CB	SEP	2662	41.453	12.873	63.346	1.00	24.62
ATOM	17903	CG	SEP	2662	41.567	14.139	67.714	1.00	24.83
ATOM	17904	C	SEP	2662	41.123	10.800	68.711	1.00	27.87
ATOM	17905	O	SEP	2662	40.798	10.541	69.872	1.00	28.57
ATOM	17906	N	FHE	2663	41.562	9.876	67.857	1.00	27.15
ATOM	17907	CA	FHE	2663	41.662	8.472	68.231	1.00	27.58
ATOM	17908	CB	FHE	2663	41.992	7.581	67.195	1.00	28.72
ATOM	17909	CG	FHE	2663	39.567	7.795	67.099	1.00	28.64
ATOM	17910	CD1	FHE	2663	39.943	8.475	65.980	1.00	28.22
ATOM	17911	CD2	FHE	2663	39.664	7.579	68.127	1.00	28.60
ATOM	17912	CE1	FHE	2663	39.543	8.443	65.879	1.00	28.13
ATOM	17913	CE2	FHE	2663	39.784	7.543	68.037	1.00	28.38
ATOM	17914	CZ	FHE	2663	39.736	8.132	66.999	1.00	27.60
ATOM	17915	C	FHE	2663	41.147	8.870	68.137	1.00	29.10
ATOM	17916	O	FHE	2663	41.102	8.862	67.843	1.00	28.87
ATOM	17917	N	HIS	2664	41.415	7.081	69.354	1.00	30.62
ATOM	17918	CA	HIS	2664	41.793	6.510	69.335	1.00	33.11
ATOM	17919	CB	HIS	2664	41.393	7.133	70.631	1.00	32.47
ATOM	17920	CG	HIS	2664	41.698	8.810	70.159	1.00	31.87
ATOM	17921	CD2	HIS	2664	41.143	9.617	71.109	1.00	31.31
ATOM	17922	ND1	HIS	2664	41.671	9.119	69.743	1.00	31.86
ATOM	17923	CE1	HIS	2664	41.764	10.433	69.877	1.00	32.26
ATOM	17924	CE2	HIS	2664	41.787	10.715	70.741	1.00	31.44
ATOM	17925	C	HIS	2664	41.810	9.960	69.347	1.00	34.16
ATOM	17926	O	HIS	2664	41.924	8.517	69.013	1.00	34.77
ATOM	17927	EXT	HIS	2664	41.815	8.436	69.048	1.00	34.17
ATOM	17928	C1	FEL	2665	41.143	11.817	55.863	1.00	40.74
ATOM	17929	C2	FEL	2665	41.961	11.715	54.537	1.00	41.12
ATOM	17930	C3	FEL	2665	41.077	12.166	52.870	1.00	41.20
ATOM	17931	C4	FEL	2665	41.387	11.202	54.712	1.00	42.46
ATOM	17932	C1	FEL	2665	41.116	9.899	55.510	1.00	45.17
ATOM	17933	C2	FEL	2665	41.110	10.836	53.450	1.00	39.19
ATOM	17934	C3	FEL	2665	41.663	9.848	53.661	1.00	38.46
ATOM	17935	C6	FEL	2665	40.515	11.146	53.130	1.00	37.68
ATOM	17936	C3	FEL	2665	41.119	12.145	53.830	1.00	35.37
ATOM	17937	C4	FEL	2665	41.039	10.519	52.157	1.00	34.31
ATOM	17938	CB	MET	2701	41.849	13.058	-4.231	1.00	73.64
ATOM	17939	CG	MET	2701	41.731	17.961	-3.594	1.00	74.75
ATOM	17940	ND	MET	2701	41.148	11.478	-4.183	1.00	76.63
ATOM	17941	CE	MET	2701	41.494	16.017	-5.398	1.00	76.51
ATOM	17942	C	MET	2701	41.675	18.015	-4.580	1.00	71.20
ATOM	17943	O	MET	2701	41.677	13.329	-5.182	1.00	71.65
ATOM	17944	N	MET	2701	41.341	18.824	-2.313	1.00	71.84
ATOM	17945	CA	MET	2701	41.144	13.060	-3.787	1.00	72.13
ATOM	17946	N	LYS	2702	41.146	16.777	-4.573	1.00	59.46
ATOM	17947	CA	LYS	2702	41.420	15.710	-5.314	1.00	67.58
ATOM	17948	CB	LYS	2702	41.180	15.500	-6.657	1.00	68.24
ATOM	17949	CG	LYS	2702	41.117	16.745	-7.512	1.00	69.69
ATOM	17950	CD	LYS	2702	41.184	17.196	-8.051	1.00	69.85
ATOM	17951	CE	LYS	2702	41.218	16.208	-9.025	1.00	70.29
ATOM	17952	CD	LYS	2702	41.118	16.690	-9.349	1.00	70.64
ATOM	17953	C	LYS	2702	41.119	14.356	-4.786	1.00	65.54
ATOM	17954	O	LYS	2702	41.119	14.312	-4.130	1.00	66.40
ATOM	17955	N	PRO	2703	41.119	14.356	-4.136	1.00	62.79
ATOM	17956	CA	PRO	2703	41.349	13.174	-3.177	1.00	62.15
ATOM	17957	CB	PRO	2703	41.349	13.174	-3.153	1.00	62.05
ATOM	17958	CG	PRO	2703	41.417	15.124	-1.311	1.00	60.59
ATOM	17959	C1	PRO	2703	41.814	13.500	-1.149	1.00	61.34
ATOM	17960	C	PRO	2703	41.818	15.784	-1.867	1.00	57.10
ATOM	17961	O	PRO	2703	41.808	15.402	-1.523	1.00	56.61
ATOM	17962	N	THR	2704	41.544	16.429	-1.711	1.00	54.53
ATOM	17963	CA	THR	2704	41.261	16.729	-1.126	1.00	51.38
ATOM	17964	CB	THR	2704	41.267	18.095	-1.603	1.00	51.73
ATOM	17965	CG1	THR	2704	41.978	19.147	-1.328	1.00	57.56
ATOM	17966	CG2	THR	2704	41.860	18.144	-1.719	1.00	50.43
ATOM	17967	C	THR	2704	41.678	15.647	-1.834	1.00	49.86
ATOM	17968	O	THR	2704	41.041	15.571	-1.983	1.00	48.30
ATOM	17969	N	THR	2704	41.115	14.815	-1.551	1.00	48.17

ATOM	17970	CA	THR	2705	37.040	13.743	1.410	1.00	47.18
ATOM	17971	CB	THR	2705	37.087	12.297	0.664	1.00	46.54
ATOM	17972	CG1	THR	2705	38.071	12.455	-0.275	1.00	45.94
ATOM	17973	CG2	THR	2705	35.728	12.081	0.451	1.00	46.54
ATOM	17974	C	THR	2705	38.432	14.017	1.695	1.00	46.48
ATOM	17975	O	THR	2705	39.061	14.016	1.664	1.00	45.96
ATOM	17976	N	ILE	2706	38.875	13.119	2.864	1.00	45.87
ATOM	17977	CA	ILE	2706	40.180	13.245	3.502	1.00	45.37
ATOM	17978	CB	ILE	2706	40.461	12.049	4.478	1.00	45.15
ATOM	17979	CG2	ILE	2706	41.244	12.292	5.222	1.00	45.06
ATOM	17980	CG1	ILE	2706	39.287	11.852	5.400	1.00	47.18
ATOM	17981	CD1	ILE	2706	39.280	10.579	6.222	1.00	47.98
ATOM	17982	C	ILE	2706	41.278	12.293	5.447	1.00	45.87
ATOM	17983	O	ILE	2706	42.261	12.834	5.676	1.00	44.76
ATOM	17984	N	SER	2707	40.992	12.719	1.278	1.00	45.94
ATOM	17985	CA	SER	2707	41.949	12.695	0.173	1.00	46.23
ATOM	17986	CB	SER	2707	41.178	11.997	-1.045	1.00	46.07
ATOM	17987	CG	SER	2707	41.334	10.650	-0.738	1.00	47.59
ATOM	17988	C	SER	2707	42.179	14.110	-0.234	1.00	45.55
ATOM	17989	O	SER	2707	43.155	14.257	-0.489	1.00	44.61
ATOM	17990	N	LEU	2708	41.437	15.632	-0.234	1.00	43.78
ATOM	17991	CA	LEU	2708	41.469	16.421	-0.590	1.00	45.81
ATOM	17992	CB	LEU	2708	40.470	17.250	-0.518	1.00	47.35
ATOM	17993	CG	LEU	2708	39.964	15.852	-1.181	1.00	47.87
ATOM	17994	CD1	LEU	2708	38.612	16.619	-1.605	1.00	42.53
ATOM	17995	CD2	LEU	2708	40.960	16.771	-2.336	1.00	48.53
ATOM	17996	C	LEU	2708	42.731	17.052	-0.377	1.00	48.73
ATOM	17997	O	LEU	2708	43.769	17.671	-0.129	1.00	43.13
ATOM	17998	N	LEU	2708	42.319	16.890	1.640	1.00	47.53
ATOM	17999	CA	LEU	2709	43.449	17.451	2.606	1.00	46.33
ATOM	18000	CB	LEU	2709	42.935	17.231	4.044	1.00	42.81
ATOM	18001	CG	LEU	2709	41.735	17.781	4.267	1.00	48.03
ATOM	18002	CD1	LEU	2709	41.169	17.497	5.827	1.00	46.71
ATOM	18003	CD2	LEU	2709	41.732	19.276	4.088	1.00	48.83
ATOM	18004	C	LEU	2709	44.364	16.829	2.105	1.00	49.18
ATOM	18005	O	LEU	2709	45.431	17.451	2.831	1.00	48.60
ATOM	18006	N	GLN	2710	44.365	15.589	2.007	1.00	50.93
ATOM	18007	CA	GLN	2710	46.134	14.869	2.857	1.00	52.96
ATOM	18008	CB	GLN	2710	45.893	12.791	2.632	1.00	54.73
ATOM	18009	CG	GLN	2710	47.137	11.526	2.638	1.00	57.12
ATOM	18010	CD	GLN	2710	47.171	11.415	3.037	1.00	58.97
ATOM	18011	OE1	GLN	2710	48.132	13.421	3.645	1.00	60.03
ATOM	18012	NE2	GLN	2710	47.764	11.198	3.635	1.00	59.77
ATOM	18013	C	GLN	2710	46.789	15.476	0.697	1.00	53.46
ATOM	18014	O	GLN	2710	48.146	15.790	0.242	1.00	53.66
ATOM	18015	N	LYS	2711	46.214	15.635	-0.441	1.00	53.93
ATOM	18016	CA	LYS	2711	46.864	16.201	-1.636	1.00	54.73
ATOM	18017	CB	LYS	2711	45.817	15.377	-2.739	1.00	55.71
ATOM	18018	CG	LYS	2711	46.421	16.633	-4.075	1.00	55.82
ATOM	18019	CD	LYS	2711	45.736	15.555	-4.955	1.00	57.13
ATOM	18020	CE	LYS	2711	44.746	16.585	-5.533	1.00	57.77
ATOM	18021	NZ	LYS	2711	43.104	13.807	-6.407	1.00	58.73
ATOM	18022	C	LYS	2711	47.828	17.614	-1.332	1.00	54.46
ATOM	18023	O	LYS	2711	48.782	18.025	-1.292	1.00	55.71
ATOM	18024	N	TYP	2712	46.831	13.354	-0.558	1.00	54.70
ATOM	18025	CA	TYP	2712	46.841	19.721	-0.193	1.00	54.40
ATOM	18026	CB	TYP	2712	45.795	20.473	0.693	1.00	54.41
ATOM	18027	CG	TYP	2712	44.190	20.841	-0.359	1.00	55.71
ATOM	18028	CD1	TYP	2712	43.160	21.564	0.423	1.00	55.71
ATOM	18029	CD2	TYP	2712	42.275	21.537	-0.071	1.00	55.73
ATOM	18030	CE	TYP	2712	44.564	20.847	-1.155	1.00	55.72
ATOM	18031	C	TYP	2712	43.149	21.797	-2.153	1.00	55.73
ATOM	18032	O	TYP	2712	42.376	21.833	-1.163	1.00	55.79
ATOM	18033	N	TYP	2712	41.290	23.513	-2.145	1.00	55.75
ATOM	18034	CA	TYP	2713	42.277	19.831	0.135	1.00	54.15
ATOM	18035	CB	TYP	2713	42.003	20.734	0.191	1.00	54.70
ATOM	18036	C	LYS	2713	42.435	13.927	1.159	1.00	54.77
ATOM	18037	CA	LYS	2713	42.717	18.955	2.175	1.00	55.19
ATOM	18038	CB	LYS	2713	42.787	17.863	3.341	1.00	53.74
ATOM	18039	CG	LYS	2713	51.072	17.963	4.856	1.00	52.89
ATOM	18040	CD	LYS	2713	50.915	17.134	5.372	1.00	50.87
ATOM	18041	CE	LYS	2713	52.169	17.375	6.318	1.00	50.74
ATOM	18042	NZ	LYS	2713	51.974	16.777	7.465	1.00	49.12
ATOM	18043	C	LYS	2713	50.935	18.805	1.732	1.00	55.49
ATOM	18044	O	LYS	2713	51.969	19.390	1.471	1.00	56.25
ATOM	18045	N	GLN	2714	50.753	18.943	0.131	1.00	57.18
ATOM	18046	CA	GLN	2714	51.807	17.933	-0.811	1.00	58.36

ATOM	18047	CR	GLN	2714	51.438	16.762	-1.819	1.00	59.42
ATOM	18048	CG	GLN	2714	51.254	15.396	-1.216	1.00	61.57
ATOM	18049	CI	GLN	2714	50.997	14.336	-2.270	1.00	62.96
ATOM	18050	OE1	GLN	2714	51.812	14.134	-3.171	1.00	64.00
ATOM	18051	NE2	GLN	2714	49.859	13.656	-2.166	1.00	63.63
ATOM	13012	C	GLN	2714	52.073	19.146	-1.551	1.00	58.50
ATOM	13013	O	GLN	2714	53.217	19.863	-1.722	1.00	59.24
ATOM	13014	N	GLU	2715	50.992	19.785	-1.986	1.00	58.54
ATOM	18055	CA	GLU	2715	51.082	21.042	-2.714	1.00	58.89
ATOM	18056	CB	GLU	2715	49.783	21.234	-3.477	1.00	59.02
ATOM	18057	CG	GLU	2715	48.312	20.144	-4.373	1.00	58.98
ATOM	18058	CD	GLU	2715	44.032	20.381	-5.034	1.00	60.87
ATOM	18059	OE1	GLU	2715	47.061	20.683	-4.309	1.00	61.95
ATOM	18060	OE2	GLU	2715	47.946	20.160	-6.274	1.00	61.16
ATOM	18061	C	GLU	2715	51.351	22.189	-1.761	1.00	58.97
ATOM	18062	O	GLU	2715	51.366	23.280	-2.169	1.00	58.41
ATOM	18063	N	LYS	2716	51.563	21.874	-0.489	1.00	58.61
ATOM	18064	CA	LYS	2716	51.826	22.882	0.531	1.00	58.78
ATOM	18065	CB	LYS	2716	53.169	23.338	0.244	1.00	58.70
ATOM	18066	CG	LYS	2716	54.321	22.854	-0.032	1.00	58.65
ATOM	18067	CD	LYS	2716	54.601	21.385	1.178	1.00	61.37
ATOM	18068	CE	LYS	2716	55.782	20.285	0.853	1.00	61.03
ATOM	18069	CT	LYS	2716	57.032	21.281	0.359	1.00	61.83
ATOM	18070	C	LYS	2716	52.721	22.224	0.561	1.00	59.18
ATOM	18071	O	LYS	2716	52.926	23.247	1.020	1.00	58.70
ATOM	18072	N	LYS	2717	48.548	21.354	0.065	1.00	57.44
ATOM	18073	CA	LYS	2717	48.400	24.141	0.024	1.00	58.21
ATOM	18074	CB	LYS	2717	47.501	24.983	-1.167	1.00	57.20
ATOM	18075	CG	LYS	2717	46.344	25.238	-1.467	1.00	58.48
ATOM	18076	CD	LYS	2717	45.574	24.217	-1.679	1.00	59.16
ATOM	18077	CE	LYS	2717	46.441	24.632	-0.925	1.00	60.27
ATOM	18078	CF	LYS	2717	48.682	24.224	-0.174	1.00	58.88
ATOM	18079	C	LYS	2717	47.604	24.268	1.326	1.00	55.15
ATOM	18080	O	LYS	2717	48.819	23.443	1.536	1.00	55.14
ATOM	18081	N	ARG	2718	47.820	25.250	1.191	1.00	53.27
ATOM	18082	CA	ARG	2718	47.145	25.211	1.483	1.00	52.15
ATOM	18083	CB	ARG	2718	47.728	26.232	4.334	1.00	52.40
ATOM	18084	CG	ARG	2718	48.122	26.220	4.849	1.00	53.29
ATOM	18085	CH	ARG	2718	48.742	27.242	5.545	1.00	54.70
ATOM	18086	NH1	ARG	2718	50.125	28.462	4.605	1.00	55.74
ATOM	18087	CE	ARG	2718	50.812	29.222	4.944	1.00	56.58
ATOM	18088	NH2	ARG	2718	51.123	29.220	6.204	1.00	56.22
ATOM	18089	NH2	ARG	2718	51.181	30.284	4.021	1.00	57.45
ATOM	18090	C	ARG	2718	45.622	25.612	3.328	1.00	50.84
ATOM	18091	O	ARG	2718	45.187	26.468	2.565	1.00	50.29
ATOM	18092	N	PHE	2719	44.861	24.212	4.067	1.00	48.72
ATOM	18093	CA	PHE	2719	43.426	24.871	4.016	1.00	46.09
ATOM	18094	CB	PHE	2719	42.882	23.482	3.674	1.00	47.13
ATOM	18095	CG	PHE	2719	42.311	22.346	3.565	1.00	46.19
ATOM	18096	CD1	PHE	2719	42.764	22.122	5.788	1.00	46.63
ATOM	18097	CD2	PHE	2719	44.482	21.232	4.193	1.00	46.52
ATOM	18098	CE1	PHE	2719	43.287	21.123	6.628	1.00	46.28
ATOM	18099	CE2	PHE	2719	44.944	20.244	5.024	1.00	46.72
ATOM	18100	CH	PHE	2719	44.362	20.382	6.245	1.00	46.49
ATOM	18101	C	PHE	2719	42.782	25.222	5.316	1.00	44.37
ATOM	18102	O	PHE	2719	45.493	25.280	6.381	1.00	43.11
ATOM	18103	N	ALA	2720	41.561	25.222	5.223	1.00	42.30
ATOM	18104	CA	ALA	2720	40.842	26.443	6.381	1.00	41.78
ATOM	18105	CB	ALA	2720	40.243	27.222	6.049	1.00	41.46
ATOM	18106	C	ALA	2720	39.718	25.482	6.840	1.00	40.79
ATOM	18107	O	ALA	2720	39.120	24.222	6.065	1.00	38.88
ATOM	18108	N	THR	2721	38.445	28.442	6.182	1.00	40.44
ATOM	18109	CA	THR	2721	38.449	24.222	8.267	1.00	38.29
ATOM	18110	CB	THR	2721	39.074	23.222	6.827	1.00	39.28
ATOM	18111	CG	THR	2721	40.236	22.222	8.187	1.00	41.25
ATOM	18112	CD	THR	2721	39.936	22.222	10.073	1.00	41.39
ATOM	18113	C	THR	2721	38.880	22.222	8.272	1.00	37.22
ATOM	18114	O	THR	2721	38.181	26.222	10.269	1.00	37.24
ATOM	18115	N	ILE	2722	38.404	25.222	10.016	1.00	34.57
ATOM	18116	CA	ILE	2722	37.575	25.222	10.267	1.00	33.28
ATOM	18117	CB	ILE	2722	37.856	27.222	10.111	1.00	33.46
ATOM	18118	CG	ILE	2722	38.767	26.222	9.112	1.00	32.81
ATOM	18119	CD	ILE	2722	34.256	28.222	11.091	1.00	33.24
ATOM	18120	CE	ILE	2722	38.737	29.222	12.441	1.00	33.23
ATOM	18121	C	ILE	2722	34.539	25.222	11.882	1.00	33.03
ATOM	18122	O	ILE	2722	34.165	24.048	11.182	1.00	32.21
ATOM	18123	N	THR	2723	34.222	24.222	11.222	1.00	32.22

ATOM	18124	CA	THR	2723	37.099	24.861	13.563	1.00	30.50
ATOM	18125	CB	THR	2723	37.120	25.275	15.044	1.00	31.78
ATOM	18126	OG1	THR	2723	37.810	26.669	15.150	1.00	33.34
ATOM	18127	CG	THR	2723	34.489	25.014	15.648	1.00	31.14
ATOM	18128	C	THR	2723	31.716	25.143	12.996	1.00	29.89
ATOM	18129	O	THR	2723	31.491	26.174	12.360	1.00	29.14
ATOM	18130	N	ALA	2724	30.794	24.214	13.218	1.00	27.81
ATOM	18131	CA	ALA	2724	29.428	24.364	13.739	1.00	26.26
ATOM	18132	CB	ALA	2724	29.332	23.966	11.271	1.00	26.45
ATOM	18133	C	ALA	2724	28.556	23.462	13.594	1.00	26.25
ATOM	18134	O	ALA	2724	28.591	22.888	13.999	1.00	24.53
ATOM	18135	N	TYR	2725	27.536	25.905	13.877	1.00	25.34
ATOM	18136	CA	TYR	2725	26.422	25.126	14.702	1.00	25.41
ATOM	18137	CP	TYR	2725	26.441	23.634	16.145	1.00	25.62
ATOM	18138	CG	TYR	2725	27.618	23.940	16.681	1.00	25.52
ATOM	18139	CD1	TYR	2725	28.264	25.155	16.791	1.00	23.23
ATOM	18140	CE1	TYR	2725	29.534	25.148	17.278	1.00	23.51
ATOM	18141	CD2	TYR	2725	28.676	22.916	17.071	1.00	24.40
ATOM	18142	CE2	TYR	2725	29.651	21.195	17.557	1.00	23.31
ATOM	18143	CM	TYR	2725	30.137	24.545	17.659	1.00	23.75
ATOM	18144	CH	TYR	2725	31.631	24.797	18.149	1.00	23.39
ATOM	18145	C	THR	2726	34.996	31.188	14.181	1.00	23.48
ATOM	18146	O	THR	2726	34.073	31.716	14.847	1.00	25.39
ATOM	18147	N	ASP	2726	34.812	32.175	12.999	1.00	24.69
ATOM	18148	CA	ASP	2726	33.475	31.895	12.424	1.00	25.15
ATOM	18149	CB	ASP	2726	31.736	31.085	13.649	1.00	24.48
ATOM	18150	CG	ASP	2726	29.368	26.424	12.701	1.00	21.30
ATOM	18151	CH	ASP	2726	27.278	26.844	11.529	1.00	23.52
ATOM	18152	OD1	ASP	2726	31.954	27.055	13.608	1.00	26.84
ATOM	18153	C	ASP	2726	27.463	24.122	12.506	1.00	25.19
ATOM	18154	O	ASP	2726	24.482	24.317	10.282	1.00	25.98
ATOM	18155	N	TYR	2727	31.289	25.192	10.229	1.00	25.38
ATOM	18156	CA	TYR	2727	27.080	23.355	8.890	1.00	23.18
ATOM	18157	CB	TYR	2727	26.607	23.501	8.595	1.00	23.53
ATOM	18158	CG	TYR	2727	27.215	21.141	7.156	1.00	32.36
ATOM	18159	CH	TYR	2727	27.412	21.131	6.117	1.00	33.43
ATOM	18160	CE1	TYR	2727	26.949	21.348	4.609	1.00	35.74
ATOM	18161	CE2	TYR	2727	26.636	21.127	6.853	1.00	32.74
ATOM	18162	CF	TYR	2727	19.266	21.101	5.550	1.00	34.73
ATOM	18163	CH	TYR	2727	19.472	24.581	4.535	1.00	34.95
ATOM	18164	CE2	TYR	2727	19.090	24.390	3.250	1.00	36.38
ATOM	18165	C	TYR	2727	21.481	25.185	8.261	1.00	28.49
ATOM	18166	O	TYR	2727	21.244	25.219	7.296	1.00	26.62
ATOM	18167	N	SER	2728	21.940	26.122	8.798	1.00	29.56
ATOM	18168	CA	SER	2728	22.215	27.607	8.270	1.00	31.15
ATOM	18169	CB	SER	2728	21.606	28.670	9.174	1.00	30.32
ATOM	18170	CG	SER	2728	20.195	28.600	9.127	1.00	30.93
ATOM	18171	CH	SER	2728	21.691	27.985	8.963	1.00	30.73
ATOM	18172	O	SER	2728	21.151	28.917	6.927	1.00	34.08
ATOM	18173	N	PHE	2729	24.441	27.979	9.152	1.00	33.01
ATOM	18174	CA	PHE	2729	25.460	28.263	9.026	1.00	34.03
ATOM	18175	CB	PHE	2729	26.514	28.373	10.412	1.00	32.92
ATOM	18176	CG	PHE	2729	26.244	29.683	11.084	1.00	33.06
ATOM	18177	CH	PHE	2729	25.190	29.324	11.909	1.00	32.75
ATOM	18178	CD2	PHE	2729	27.041	30.300	10.816	1.00	33.37
ATOM	18179	CE1	PHE	2729	21.934	31.346	12.601	1.00	33.59
ATOM	18180	CE2	PHE	2729	26.793	32.024	11.450	1.00	33.46
ATOM	18181	CD	PHE	2729	28.739	32.148	12.315	1.00	33.47
ATOM	18182	C	PHE	2729	26.598	27.341	8.171	1.00	34.90
ATOM	18183	O	PHE	2729	27.417	27.714	7.323	1.00	35.39
ATOM	18184	N	ALA	2730	26.316	25.958	6.367	1.00	34.77
ATOM	18185	CA	ALA	2730	26.648	24.619	7.530	1.00	34.81
ATOM	18186	CB	ALA	2730	26.495	23.944	7.943	1.00	34.81
ATOM	18187	C	ALA	2730	26.744	25.198	6.099	1.00	34.77
ATOM	18188	O	ALA	2730	27.833	25.951	5.175	1.00	34.75
ATOM	18189	N	LYS	2731	25.540	25.659	5.777	1.00	35.58
ATOM	18190	CA	LYS	2731	25.154	25.983	4.477	1.00	36.11
ATOM	18191	CB	LYS	2731	23.657	26.294	4.361	1.00	37.50
ATOM	18192	CG	LYS	2731	23.151	26.818	3.033	1.00	38.67
ATOM	18193	CH	LYS	2731	23.123	25.740	1.977	1.00	39.61
ATOM	18194	CE	LYS	2731	22.524	26.179	0.685	1.00	41.34
ATOM	18195	CD	LYS	2731	22.418	25.023	-0.261	1.00	43.53
ATOM	18196	C	LYS	2731	25.938	27.189	3.909	1.00	36.62
ATOM	18197	O	LYS	2731	26.426	27.204	2.777	1.00	35.45
ATOM	18198	N	LEU	2732	26.048	28.198	4.768	1.00	37.43
ATOM	18199	CA	LEU	2732	26.767	28.431	4.434	1.00	38.64
ATOM	18200	CB	LEU	2732	26.576	29.449	5.173	1.00	38.63

ATOM	18201	CG	LEU	2732	27.150	31.858	5.367	1.00	38.74
ATOM	18202	CD1	LEU	2732	26.427	32.832	6.281	1.00	37.58
ATOM	18203	CD2	LEU	2732	29.643	31.813	5.653	1.00	38.33
ATOM	18204	C	LEU	2732	28.242	29.163	4.179	1.00	38.69
ATOM	18205	O	LEU	2732	28.830	29.742	3.264	1.00	39.61
ATOM	18206	N	PHE	2733	28.861	28.292	4.976	1.00	38.38
ATOM	18207	CA	PHE	2733	31.338	27.692	4.793	1.00	37.33
ATOM	18208	CB	PHE	2733	32.428	27.199	5.984	1.00	38.53
ATOM	18209	CG	PHE	2733	30.611	27.870	7.314	1.00	38.08
ATOM	18210	CD1	PHE	2733	32.611	29.241	7.459	1.00	38.35
ATOM	18211	CD2	PHE	2733	30.167	27.113	8.450	1.00	36.15
ATOM	18212	CE1	PHE	2733	30.911	29.856	8.698	1.00	36.41
ATOM	18213	CE2	PHE	2733	30.104	27.729	9.651	1.00	36.51
ATOM	18214	CZ	PHE	2733	30.297	29.698	9.804	1.00	36.45
ATOM	18215	C	PHE	2733	26.309	27.192	3.514	1.00	38.89
ATOM	18216	O	PHE	2733	31.449	27.455	2.764	1.00	38.04
ATOM	18217	N	ALA	2734	29.641	26.213	1.274	1.00	40.69
ATOM	18218	CA	ALA	2734	29.346	25.366	2.094	1.00	41.63
ATOM	18219	CB	ALA	2734	28.711	24.246	2.166	1.00	41.54
ATOM	18220	C	ALA	2734	28.764	26.117	2.800	1.00	41.14
ATOM	18221	ADA	ASP	2735	32.177	25.606	-0.137	1.00	44.37
ATOM	18222	N	ASP	2735	28.811	27.045	1.795	1.00	41.43
ATOM	18223	CA	ASP	2735	28.364	27.849	-0.394	1.00	47.39
ATOM	18224	CB	ASP	2735	27.131	28.832	-0.185	1.00	47.94
ATOM	18225	CG	ASP	2735	25.810	28.038	-0.114	1.00	49.77
ATOM	18226	OD1	ASP	2735	25.110	27.038	-0.815	1.00	49.87
ATOM	18227	OD2	ASP	2735	24.837	26.338	-0.650	1.00	49.47
ATOM	18228	C	ASP	2735	26.871	28.278	-0.764	1.00	47.94
ATOM	18229	ASP	ASP	2735	26.709	29.013	-1.956	1.00	47.45
ATOM	18230	N	GLU	2736	30.147	29.134	0.193	1.00	48.95
ATOM	18231	CA	GLU	2736	31.711	29.936	-0.062	1.00	50.21
ATOM	18232	CB	GLU	2736	31.884	30.720	1.267	1.00	50.73
ATOM	18233	CG	GLU	2736	30.787	31.710	1.603	1.00	51.69
ATOM	18234	CD	GLU	2736	29.887	31.640	2.594	1.00	52.87
ATOM	18235	CE1	GLU	2736	31.110	33.437	3.129	1.00	54.23
ATOM	18236	CE2	GLU	2736	29.160	32.633	0.219	1.00	52.97
ATOM	18237	C	GLU	2736	32.127	29.439	-0.494	1.00	50.51
ATOM	18238	O	GLU	2736	33.130	28.439	-1.516	1.00	51.77
ATOM	18239	N	GLY	2737	33.881	28.137	-0.209	1.00	50.60
ATOM	18240	CA	GLY	2737	34.181	27.321	-0.044	1.00	49.87
ATOM	18241	C	GLY	2737	34.630	26.234	1.082	1.00	49.32
ATOM	18242	O	GLY	2737	35.133	25.347	0.829	1.00	49.07
ATOM	18243	N	LEU	2738	34.181	26.735	2.313	1.00	49.01
ATOM	18244	CA	LEU	2738	34.616	25.936	3.415	1.00	48.38
ATOM	18245	CB	LEU	2738	34.182	26.638	4.765	1.00	48.66
ATOM	18246	CG	LEU	2738	35.341	27.601	5.301	1.00	47.93
ATOM	18247	CD1	LEU	2738	34.638	28.445	6.473	1.00	47.98
ATOM	18248	CD2	LEU	2738	36.533	26.942	5.736	1.00	43.25
ATOM	18249	C	LEU	2738	33.943	24.513	3.418	1.00	47.74
ATOM	18250	O	LEU	2738	32.731	24.437	3.737	1.00	43.29
ATOM	18251	N	ASN	2739	34.701	23.564	2.986	1.00	46.36
ATOM	18252	CA	ASN	2739	34.168	23.214	2.872	1.00	45.27
ATOM	18253	CB	ASN	2739	34.513	21.604	1.502	1.00	46.52
ATOM	18254	CG	ASN	2739	34.170	22.561	0.336	1.00	43.47
ATOM	18255	OD1	ASN	2739	33.930	23.112	0.315	1.00	43.83
ATOM	18256	NH1	ASN	2739	35.046	22.714	-1.583	1.00	43.29
ATOM	18257	C	ASN	2739	34.733	21.219	3.973	1.00	43.36
ATOM	18258	O	ASN	2739	34.751	20.097	3.859	1.00	41.23
ATOM	18259	N	VAL	2740	35.196	21.338	3.054	1.00	40.65
ATOM	18260	CA	VAL	2740	35.733	21.205	3.173	1.00	38.58
ATOM	18261	CB	VAL	2740	37.134	21.276	3.180	1.00	37.43
ATOM	18262	CD1	VAL	2740	37.463	20.392	3.280	1.00	33.41
ATOM	18263	CD2	VAL	2740	37.833	21.246	3.833	1.00	39.41
ATOM	18264	C	VAL	2740	35.706	21.297	7.473	1.00	37.55
ATOM	18265	O	VAL	2740	35.870	20.843	7.932	1.00	36.45
ATOM	18266	N	MET	2741	34.213	21.128	8.553	1.00	35.78
ATOM	18267	CA	MET	2741	35.536	21.133	9.328	1.00	34.14
ATOM	18268	CB	MET	2741	35.047	21.858	9.619	1.00	33.81
ATOM	18269	CG	MET	2741	33.847	21.092	8.152	1.00	34.32
ATOM	18270	CD	MET	2741	39.216	23.299	7.433	1.00	35.47
ATOM	18271	CE	MET	2741	36.583	23.296	5.711	1.00	31.73
ATOM	18272	C	MET	2741	33.731	20.666	7.433	1.00	31.78
ATOM	18273	S	MET	2741	33.930	21.461	10.361	1.00	36.77
ATOM	18274	N	LEU	2742	33.737	21.338	11.333	1.00	30.44
ATOM	18275	CA	LEU	2742	33.637	20.442	12.870	1.00	29.13
ATOM	18276	CB	LEU	2742	35.168	20.818	13.517	1.00	31.59
ATOM	18277	C	LEU	2742	35.533	21.134	14.877	1.00	34.31

ATOM	18277	CD1	LEU	2742	34.985	20.907	15.998	1.00	26.28
ATOM	18278	CD2	LEU	2742	35.387	18.698	14.872	1.00	35.47
ATOM	18280	C	LEU	2742	32.784	20.603	13.871	1.00	28.08
ATOM	18281	O	LEU	2742	32.471	21.710	14.315	1.00	26.39
ATOM	18283	N	VAL	2743	32.153	19.479	14.265	1.00	26.29
ATOM	18284	CA	VAL	2743	31.658	19.457	15.165	1.00	24.79
ATOM	18285	CB	VAL	2743	29.928	18.504	14.765	1.00	24.91
ATOM	18289	CG1	VAL	2743	28.798	18.561	15.753	1.00	23.16
ATOM	18286	CG2	VAL	2743	29.369	18.927	12.336	1.00	23.03
ATOM	18287	C	VAL	2743	31.660	18.942	16.468	1.00	23.50
ATOM	18288	O	VAL	2743	31.184	19.751	16.765	1.00	24.49
ATOM	18289	N	GLY	2744	32.271	19.846	17.314	1.00	25.53
ATOM	18290	CA	GLY	2744	32.909	19.460	18.482	1.00	24.69
ATOM	18291	C	GLY	2744	32.688	19.678	19.759	1.00	23.51
ATOM	18293	O	GLY	2744	31.083	20.389	19.727	1.00	23.34
ATOM	18294	N	ASP	2745	32.510	19.659	20.679	1.00	26.46
ATOM	18294	CA	ASP	2745	31.844	19.170	22.109	1.00	27.34
ATOM	18295	CB	ASP	2745	32.468	18.118	25.136	1.00	28.72
ATOM	18296	CG	ASP	2745	33.867	18.372	25.263	1.00	31.16
ATOM	18297	CD1	ASP	2745	34.447	19.544	25.620	1.00	31.67
ATOM	18299	O	ASP	2745	31.838	20.539	27.646	1.00	27.14
ATOM	18300	C	ASP	2745	31.135	20.932	25.682	1.00	26.13
ATOM	18301	N	EP	2746	31.338	21.337	21.946	1.00	27.18
ATOM	18302	CA	EP	2746	30.631	20.864	22.968	1.00	26.26
ATOM	18303	CB	EP	2746	30.341	20.670	21.797	1.00	26.15
ATOM	18304	OG	EP	2746	30.676	20.351	20.661	1.00	26.18
ATOM	18305	C	EP	2746	31.754	20.417	22.798	1.00	27.15
ATOM	18306	O	EP	2746	30.946	24.341	22.114	1.00	26.13
ATOM	18307	N	LEU	2747	30.388	21.530	21.175	1.00	25.97
ATOM	18308	CA	LEU	2747	28.988	20.244	21.161	1.00	24.80
ATOM	18309	CB	LEU	2747	28.120	22.715	20.579	1.00	24.87
ATOM	18310	CG	LEU	2747	28.127	20.318	20.530	1.00	24.63
ATOM	18311	CD1	LEU	2747	28.968	20.367	21.316	1.00	25.96
ATOM	18312	CD2	LEU	2747	27.901	20.656	19.534	1.00	25.34
ATOM	18313	C	LEU	2747	28.341	20.111	21.967	1.00	23.90
ATOM	18314	O	LEU	2747	27.311	20.351	20.112	1.00	23.18
ATOM	18315	N	GLY	2748	28.482	21.673	20.983	1.00	23.28
ATOM	18316	CA	GLY	2748	28.414	22.396	21.151	1.00	25.09
ATOM	18317	C	GLY	2748	28.449	20.344	23.842	1.00	27.51
ATOM	18318	O	GLY	2748	27.725	20.935	20.910	1.00	25.90
ATOM	18319	N	MET	2749	29.091	24.641	25.341	1.00	29.54
ATOM	18320	CA	MET	2749	28.411	25.970	25.970	1.00	30.31
ATOM	18321	CB	MET	2749	30.384	26.294	26.134	1.00	33.31
ATOM	18322	CG	MET	2749	31.546	25.370	27.238	1.00	35.18
ATOM	18323	SD	MET	2749	31.194	25.714	27.144	1.00	33.41
ATOM	18324	CE	MET	2749	30.162	27.312	28.533	1.00	40.90
ATOM	18325	C	MET	2749	28.798	27.044	25.041	1.00	33.17
ATOM	18326	O	MET	2749	28.003	27.863	27.131	1.00	30.78
ATOM	18327	N	THR	2750	29.152	27.029	26.767	1.00	28.44
ATOM	18328	CA	THR	2750	28.653	26.916	25.317	1.00	28.34
ATOM	18329	CB	THR	2750	29.546	28.017	21.375	1.00	28.53
ATOM	18330	OG1	THR	2750	29.124	29.130	20.711	1.00	33.35
ATOM	18331	OG2	THR	2750	29.450	26.744	20.316	1.00	29.90
ATOM	18332	C	THR	2750	27.113	27.787	20.439	1.00	27.31
ATOM	18333	O	THR	2750	26.135	28.731	25.033	1.00	27.33
ATOM	18334	N	VAL	2751	26.779	26.533	27.425	1.00	27.07
ATOM	18335	CA	VAL	2751	26.111	26.320	23.633	1.00	26.45
ATOM	18336	CB	VAL	2751	24.330	26.094	23.036	1.00	27.34
ATOM	18337	CG1	VAL	2751	26.445	24.661	23.717	1.00	26.72
ATOM	18339	CG2	VAL	2751	26.132	26.316	19.837	1.00	27.61
ATOM	18339	C	VAL	2751	24.308	26.440	23.231	1.00	25.09
ATOM	18340	O	VAL	2751	23.159	26.333	23.380	1.00	25.42
ATOM	18341	N	GLN	2752	24.424	24.308	24.668	1.00	25.19
ATOM	18342	CA	GLN	2752	24.140	24.433	23.261	1.00	25.15
ATOM	18343	CB	GLN	2752	24.356	23.737	23.735	1.00	25.11
ATOM	18344	CG	GLN	2752	24.136	23.131	24.734	1.00	21.69
ATOM	18345	CD	GLN	2752	24.763	23.774	23.113	1.00	19.81
ATOM	18346	OE1	GLN	2752	23.425	20.619	20.116	1.00	20.75
ATOM	18347	NE2	GLN	2752	23.563	19.800	24.233	1.00	16.51
ATOM	18348	C	GLN	2752	24.248	23.637	24.435	1.00	27.38
ATOM	18349	O	GLN	2752	23.303	25.818	24.173	1.00	26.43
ATOM	18350	N	GLY	2753	25.401	26.286	24.532	1.00	27.57
ATOM	18351	CA	GLY	2753	25.577	27.273	26.524	1.00	29.69
ATOM	18352	C	GLY	2753	26.144	26.765	26.886	1.00	30.32
ATOM	18353	O	GLY	2753	25.954	24.234	29.328	1.00	30.33
ATOM	18354	N	GLY	2753	26.833	25.131	28.842	1.00	30.11

ATOM	18355	CA	HIS	2754	27.448	25.063	20.036	1.00	32.27
ATOM	18356	CB	HIS	2754	27.639	23.557	19.877	1.00	33.27
ATOM	18357	CG	HIS	2754	26.359	22.794	19.763	1.00	34.86
ATOM	18358	CD	HIS	2754	25.855	22.050	18.751	1.00	34.88
ATOM	18359	ND1	HIS	2754	25.431	21.735	18.783	1.00	35.48
ATOM	18360	CE1	HIS	2754	24.411	21.988	18.404	1.00	35.76
ATOM	18361	NE2	HIS	2754	24.641	21.562	19.175	1.00	35.21
ATOM	18362	C	HIS	2754	28.808	25.721	10.258	1.00	33.24
ATOM	18363	O	HIS	2754	29.329	26.391	19.365	1.00	31.50
ATOM	18364	N	ASP	2755	29.381	25.511	21.442	1.00	4.08
ATOM	18365	CA	ASP	2755	10.638	26.084	21.795	1.00	35.48
ATOM	18366	CB	ASP	2755	10.789	26.256	23.319	1.00	38.54
ATOM	18367	CG	ASP	2755	10.687	24.941	34.070	1.00	40.66
ATOM	18368	OD1	ASP	2755	31.598	24.095	33.924	1.00	44.22
ATOM	18369	OD2	ASP	2755	29.694	24.749	34.805	1.00	43.84
ATOM	18370	C	ASP	2755	31.841	25.240	31.085	1.00	35.23
ATOM	18371	O	ASP	2755	32.999	25.650	31.383	1.00	36.04
ATOM	18372	N	SEP	2756	31.131	24.055	30.710	1.00	33.43
ATOM	18373	CA	SEP	2756	32.135	23.161	30.139	1.00	31.37
ATOM	18374	CB	SEP	2756	33.211	22.253	31.319	1.00	29.37
ATOM	18375	CD	SEP	2756	32.135	21.301	31.759	1.00	28.98
ATOM	18376	C	SEP	2756	32.909	22.319	30.134	1.00	30.38
ATOM	18377	O	SEP	2756	30.767	22.508	28.775	1.00	29.90
ATOM	18378	N	THR	2757	32.707	21.382	28.601	1.00	30.39
ATOM	18379	CA	THR	2757	32.136	20.520	27.528	1.00	29.72
ATOM	18380	CB	THR	2757	33.239	20.404	27.415	1.00	29.31
ATOM	18381	CG1	THR	2757	34.131	19.832	26.917	1.00	27.82
ATOM	18382	CG2	THR	2757	33.438	21.773	25.811	1.00	29.07
ATOM	18383	C	THR	2757	32.239	19.109	28.069	1.00	29.23
ATOM	18384	O	THR	2757	33.138	18.275	23.217	1.00	28.12
ATOM	18385	N	LEU	2758	32.130	18.842	20.235	1.00	28.13
ATOM	18386	CA	LEU	2758	32.134	17.518	20.849	1.00	27.35
ATOM	18387	CB	LEU	2758	32.134	17.453	31.312	1.00	28.03
ATOM	18388	CG	LEU	2758	33.088	17.047	31.630	1.00	29.70
ATOM	18389	CD1	LEU	2758	34.165	18.019	30.978	1.00	30.55
ATOM	18390	CD2	LEU	2758	33.130	17.911	33.175	1.00	31.33
ATOM	18391	C	LEU	2758	30.130	17.372	27.777	1.00	28.37
ATOM	18392	O	LEU	2758	31.139	15.899	29.438	1.00	26.40
ATOM	18393	N	PPO	2759	29.121	17.993	29.908	1.00	26.39
ATOM	18394	CA	PPO	2759	29.159	19.394	30.346	1.00	28.12
ATOM	18395	CB	PPO	2759	27.137	17.626	29.795	1.00	26.06
ATOM	18396	CG	PPO	2759	27.137	18.895	30.250	1.00	23.18
ATOM	18397	CD	PPO	2759	28.130	19.993	29.929	1.00	27.39
ATOM	18398	C	PPO	2759	27.130	17.161	28.401	1.00	25.35
ATOM	18399	O	PPO	2759	26.139	16.557	28.244	1.00	24.22
ATOM	18400	N	VAL	2760	28.137	17.435	27.389	1.00	24.76
ATOM	18401	CA	VAL	2760	28.134	17.637	26.012	1.00	23.60
ATOM	18402	CB	VAL	2760	28.134	17.697	24.949	1.00	23.62
ATOM	18403	CG1	VAL	2760	28.131	17.292	23.532	1.00	23.33
ATOM	18404	CG2	VAL	2760	28.131	19.204	25.135	1.00	24.42
ATOM	18405	C	VAL	2760	28.129	15.523	25.853	1.00	21.28
ATOM	18406	O	VAL	2760	29.141	14.912	26.135	1.00	21.35
ATOM	18407	N	THR	2761	27.134	14.914	25.311	1.00	21.58
ATOM	18408	CA	THR	2761	27.134	13.473	25.235	1.00	22.07
ATOM	18409	CB	THR	2761	26.133	12.763	26.119	1.00	25.74
ATOM	18410	CG1	THR	2761	25.131	13.706	26.510	1.00	27.70
ATOM	18411	CG2	THR	2761	26.713	12.805	27.352	1.00	29.16
ATOM	18412	C	THR	2761	27.037	13.067	23.711	1.00	20.47
ATOM	18413	O	THR	2761	26.810	13.997	32.351	1.00	28.18
ATOM	18414	N	VAL	2761	27.146	11.769	23.466	1.00	17.62
ATOM	18415	CA	VAL	2761	27.137	11.068	22.102	1.00	18.14
ATOM	18416	CB	VAL	2761	27.200	9.724	22.092	1.00	18.96
ATOM	18417	CG1	VAL	2761	28.167	9.128	21.676	1.00	18.58
ATOM	18418	CG2	VAL	2761	28.611	8.135	22.782	1.00	17.91
ATOM	18419	C	VAL	2761	25.881	11.659	21.335	1.00	17.34
ATOM	18420	O	VAL	2761	25.983	12.138	20.294	1.00	20.33
ATOM	18421	N	ALA	2762	24.711	11.555	21.950	1.00	16.56
ATOM	18422	CA	ALA	2762	23.461	11.839	21.308	1.00	18.78
ATOM	18423	CB	ALA	2762	23.131	11.829	22.234	1.00	17.39
ATOM	18424	C	ALA	2762	23.433	10.889	21.814	1.00	18.99
ATOM	18425	O	ALA	2762	23.967	10.679	19.832	1.00	18.49
ATOM	18426	N	ASP	2763	24.044	14.299	21.607	1.00	16.36
ATOM	18427	CA	ASP	2763	24.118	15.076	21.278	1.00	17.11
ATOM	18428	CB	ASP	2763	24.219	14.944	22.355	1.00	18.73
ATOM	18429	C	ASP	2763	23.688	14.918	23.822	1.00	18.74
ATOM	18430	O	ASP	2763	23.138	14.468	23.549	1.00	17.17
ATOM	18431	N	ASP	2763	24.581	14.138	24.718	1.00	18.91

ATOM	18422	C	ASP	2764	24.968	15.875	19.977	1.00	16.56
ATOM	18423	O	ASP	2764	24.617	16.642	19.084	1.00	15.59
ATOM	18424	N	ILE	2765	16.094	15.171	19.923	1.00	17.15
ATOM	18425	CA	ILE	2765	16.991	15.361	18.774	1.00	16.11
ATOM	18426	CB	ILE	2765	18.137	14.499	18.985	1.00	16.63
ATOM	18427	CG2	ILE	2765	29.193	14.452	17.740	1.00	19.14
ATOM	18428	CG1	ILE	2765	29.057	14.401	20.107	1.00	18.27
ATOM	18429	CD1	ILE	2765	29.657	16.400	20.941	1.00	20.11
ATOM	18430	C	ILE	2765	26.262	14.787	17.509	1.00	16.09
ATOM	18431	O	ILE	2765	26.328	15.437	16.461	1.00	17.25
ATOM	18432	N	ALA	2766	23.565	13.661	17.615	1.00	17.05
ATOM	18433	CA	ALA	2766	24.831	12.106	16.478	1.00	16.59
ATOM	18434	CB	ALA	2766	24.161	11.765	16.358	1.00	16.04
ATOM	18435	C	ALA	2766	23.749	14.566	15.983	1.00	16.20
ATOM	18436	O	ALA	2766	23.486	14.167	14.778	1.00	14.36
ATOM	18437	N	TYR	2767	22.989	14.245	16.321	1.00	15.60
ATOM	18438	CA	TYR	2767	22.748	15.661	16.578	1.00	17.66
ATOM	18439	CB	TYR	2767	21.449	16.369	17.355	1.00	17.15
ATOM	18440	CG	TYR	2767	21.442	17.576	17.611	1.00	18.56
ATOM	18441	CD2	TYR	2767	19.112	17.177	16.498	1.00	15.60
ATOM	18442	CE1	TYR	2767	18.169	16.115	16.311	1.00	15.55
ATOM	18443	CE2	TYR	2767	21.609	16.001	16.028	1.00	21.43
ATOM	18444	CE3	TYR	2767	18.774	16.004	17.345	1.00	15.93
ATOM	18445	CZ	TYR	2767	18.447	15.546	17.138	1.00	20.83
ATOM	18446	OH	TYR	2767	17.677	21.559	17.167	1.00	18.43
ATOM	18447	O	TYR	2767	21.612	16.571	17.715	1.00	18.01
ATOM	18448	O	TYR	2767	21.170	17.771	14.714	1.00	19.81
ATOM	18449	N	HIS	2768	21.689	17.462	16.326	1.00	19.41
ATOM	18450	CA	HIS	2768	24.789	15.561	16.479	1.00	18.71
ATOM	18451	CB	HIS	2768	25.395	15.254	16.347	1.00	18.31
ATOM	18452	CG	HIS	2768	24.343	21.570	17.430	1.00	19.91
ATOM	18453	CD2	HIS	2768	24.734	18.789	17.311	1.00	20.46
ATOM	18454	ND1	HIS	2768	23.816	23.771	17.175	1.00	19.52
ATOM	18455	CE1	HIS	2768	21.746	21.677	18.457	1.00	19.84
ATOM	18456	NE2	HIS	2768	21.719	20.782	15.344	1.00	19.22
ATOM	18457	C	HIS	2768	24.786	15.100	14.159	1.00	17.63
ATOM	18458	O	HIS	2768	24.816	15.267	13.135	1.00	17.64
ATOM	18459	N	THR	2769	23.708	16.864	14.734	1.00	17.47
ATOM	18460	CA	THR	2769	26.173	16.807	14.164	1.00	18.59
ATOM	18461	CB	THR	2769	26.813	14.876	14.381	1.00	18.61
ATOM	18462	CG1	THR	2769	27.815	15.137	14.169	1.00	19.38
ATOM	18463	CG2	THR	2769	27.205	14.777	12.159	1.00	19.98
ATOM	18464	C	THR	2769	26.907	16.716	11.534	1.00	19.84
ATOM	18465	O	THR	2769	26.539	16.554	10.159	1.00	20.76
ATOM	18466	N	ALA	2770	24.665	15.750	15.173	1.00	18.24
ATOM	18467	CA	ALA	2770	22.647	15.565	12.137	1.00	20.70
ATOM	18468	CB	ALA	2770	21.784	14.802	11.626	1.00	19.96
ATOM	18469	C	ALA	2770	22.567	16.063	10.566	1.00	19.65
ATOM	18470	O	ALA	2770	22.863	17.097	9.387	1.00	19.44
ATOM	18471	N	ALA	2771	22.461	17.961	11.450	1.00	19.52
ATOM	18472	CA	ALA	2771	22.983	19.265	11.010	1.00	19.17
ATOM	18473	CB	ALA	2771	21.887	20.169	12.215	1.00	19.60
ATOM	18474	C	ALA	2771	23.146	19.875	10.071	1.00	19.51
ATOM	18475	O	ALA	2771	22.833	20.325	8.993	1.00	20.21
ATOM	18476	N	VAL	2772	21.495	13.740	10.481	1.00	20.13
ATOM	18477	CA	VAL	2772	25.169	20.233	9.653	1.00	22.46
ATOM	18478	CB	VAL	2772	26.861	19.966	10.332	1.00	22.59
ATOM	18479	CG1	VAL	2772	21.993	20.233	9.355	1.00	22.49
ATOM	18480	CG2	VAL	2772	25.933	20.869	11.573	1.00	20.73
ATOM	18481	C	VAL	2772	15.435	14.514	8.291	1.00	23.49
ATOM	18482	O	VAL	2772	25.567	20.149	7.252	1.00	23.77
ATOM	18483	N	ARG	2773	25.475	13.213	8.307	1.00	23.50
ATOM	18484	CA	ARG	2773	25.452	17.135	7.079	1.00	23.91
ATOM	18485	CB	ARG	2773	25.182	15.219	7.402	1.00	23.75
ATOM	18486	CG	ARG	2773	25.231	15.745	6.781	1.00	24.31
ATOM	18487	CD	ARG	2773	25.715	15.217	5.211	1.00	25.43
ATOM	18488	NE	ARG	2773	27.159	14.747	5.840	1.00	25.85
ATOM	18489	CZ	ARG	2773	23.667	14.919	5.301	1.00	27.87
ATOM	18500	NH1	ARG	2773	28.737	15.560	4.147	1.00	27.85
ATOM	18501	NH2	ARG	2773	29.819	14.349	5.312	1.00	24.61
ATOM	18502	C	ARG	2773	24.170	17.573	6.107	1.00	25.75
ATOM	18503	O	ARG	2773	24.435	17.809	4.837	1.00	26.70
ATOM	18504	N	ARG	2774	23.081	18.193	6.626	1.00	24.07
ATOM	18505	CA	ARG	2774	21.979	18.639	5.777	1.00	24.60
ATOM	18506	CB	ARG	2774	20.698	18.814	6.537	1.00	24.60
ATOM	18507	CG	ARG	2774	20.163	17.532	7.217	1.00	25.85
ATOM	18508	CD	ARG	2774	18.759	17.730	7.420	1.00	25.85

ATOM	18509	NE	ARG	2774	18.277	16.562	8.381	1.00	26.44
ATOM	18510	CZ	ARG	2774	18.464	16.116	9.664	1.00	27.67
ATOM	18511	NH1	ARG	2774	19.207	16.862	10.445	1.00	26.75
ATOM	18512	NH2	ARG	2774	18.997	14.962	10.609	1.00	29.16
ATOM	18513	C	ARG	2774	22.319	19.962	5.107	1.00	26.29
ATOM	18514	O	ARG	2774	21.915	20.225	1.905	1.00	25.64
ATOM	18515	N	GLY	2775	23.094	20.786	5.818	1.00	26.82
ATOM	18516	CA	GLY	2775	23.491	21.081	5.205	1.00	29.16
ATOM	18517	C	GLY	2775	24.683	21.075	4.554	1.00	26.64
ATOM	18518	O	GLY	2775	24.869	21.911	3.518	1.00	26.02
ATOM	18519	N	ALA	2776	25.566	20.987	4.517	1.00	26.40
ATOM	18520	CA	ALA	2776	26.694	20.802	1.691	1.00	22.03
ATOM	18521	CB	ALA	2776	27.914	21.268	4.465	1.00	21.76
ATOM	18522	C	ALA	2776	28.900	19.515	1.404	1.00	22.26
ATOM	18523	O	ALA	2776	29.754	18.670	4.606	1.00	23.25
ATOM	18524	N	PRO	2777	28.118	18.253	1.473	1.00	22.99
ATOM	18525	CA	PRO	2777	29.068	19.418	1.678	1.00	23.32
ATOM	18526	CB	PRO	2777	26.219	19.235	1.209	1.00	23.05
ATOM	18527	C	PRO	2777	25.077	19.115	1.211	1.00	24.47
ATOM	18528	CG	PRO	2777	24.866	18.461	0.513	1.00	24.66
ATOM	18529	O	PRO	2777	27.519	18.961	1.473	1.00	23.57
ATOM	18530	C	PRO	2777	27.814	19.354	1.219	1.00	21.96
ATOM	18531	N	ASN	2778	28.218	17.962	1.896	1.00	23.97
ATOM	18532	CA	ASN	2778	29.555	17.615	0.266	1.00	23.27
ATOM	18533	CB	ASN	2778	29.669	18.566	-1.048	1.00	26.46
ATOM	18534	CG	ASN	2778	28.554	17.969	-1.607	1.00	28.38
ATOM	18535	OD1	ASN	2778	28.552	16.512	-2.445	1.00	28.91
ATOM	18536	NH	ASN	2778	27.671	18.312	-2.176	1.00	28.97
ATOM	18537	C	ASN	2778	30.768	18.612	1.119	1.00	24.58
ATOM	18538	O	ASN	2778	31.864	18.180	0.967	1.00	21.51
ATOM	18539	N	THR	2779	30.558	18.334	2.438	1.00	21.91
ATOM	18540	CA	THR	2779	31.664	18.683	1.285	1.00	21.31
ATOM	18541	CB	THR	2779	31.312	19.368	4.075	1.00	23.14
ATOM	18542	CG	THR	2779	30.466	19.661	5.868	1.00	26.60
ATOM	18543	O	THR	2779	32.377	17.435	4.606	1.00	21.79
ATOM	18544	C	THR	2779	31.665	16.444	4.177	1.00	21.60
ATOM	18545	N	LEU	2780	33.557	17.673	4.466	1.00	26.11
ATOM	18546	CA	LEU	2780	34.111	16.847	3.181	1.00	29.56
ATOM	18547	CB	LEU	2780	35.144	16.787	5.068	1.00	29.72
ATOM	18548	C	LEU	2780	34.863	15.754	5.758	1.00	29.00
ATOM	18549	CG1	LEU	2780	36.200	14.556	5.231	1.00	29.73
ATOM	18550	CG2	LEU	2780	38.000	16.664	5.553	1.00	26.17
ATOM	18551	C	LEU	2780	33.841	16.958	6.667	1.00	29.34
ATOM	18552	O	LEU	2780	34.545	17.868	7.215	1.00	28.84
ATOM	18553	N	LEU	2781	32.883	16.264	7.160	1.00	27.59
ATOM	18554	CA	LEU	2781	32.184	16.422	8.509	1.00	25.37
ATOM	18555	CB	LEU	2781	36.561	16.663	8.816	1.00	24.75
ATOM	18556	CG	LEU	2781	29.877	16.721	9.694	1.00	23.53
ATOM	18557	CD1	LEU	2781	28.175	16.163	9.339	1.00	24.06
ATOM	18558	CD2	LEU	2781	30.444	16.313	10.934	1.00	22.38
ATOM	18559	C	LEU	2781	33.149	15.443	9.584	1.00	25.37
ATOM	18560	G	LEU	2781	33.730	14.425	9.553	1.00	23.46
ATOM	18561	N	LEU	2782	33.758	16.372	10.514	1.00	26.91
ATOM	18562	CA	LEU	2782	34.488	15.760	11.677	1.00	26.65
ATOM	18563	CB	LEU	2782	35.661	16.149	12.738	1.00	29.44
ATOM	18564	CG	LEU	2782	36.910	15.666	10.733	1.00	31.77
ATOM	18565	CD1	LEU	2782	37.648	16.642	9.413	1.00	31.73
ATOM	18566	CD2	LEU	2782	36.148	16.046	11.333	1.00	34.44
ATOM	18567	C	LEU	2782	35.713	16.618	12.913	1.00	26.25
ATOM	18568	O	LEU	2782	33.632	17.232	13.232	1.00	26.93
ATOM	18569	N	ALA	2783	34.467	14.966	13.661	1.00	25.81
ATOM	18570	CA	ALA	2783	32.775	15.774	14.963	1.00	26.30
ATOM	18571	CB	ALA	2783	31.337	14.361	14.615	1.00	25.81
ATOM	18572	C	ALA	2783	33.633	14.383	14.966	1.00	23.83
ATOM	18573	O	ALA	2783	34.175	13.439	13.911	1.00	23.35
ATOM	18574	N	ASP	2784	33.351	15.712	17.267	1.00	24.55
ATOM	18575	CA	ASP	2784	31.768	14.665	13.409	1.00	24.41
ATOM	18576	CB	ASP	2784	34.614	15.549	19.410	1.00	29.43
ATOM	18577	CG	ASP	2784	35.311	16.357	18.787	1.00	30.77
ATOM	18578	CD1	ASP	2784	35.370	16.717	17.687	1.00	34.29
ATOM	18579	CD2	ASP	2784	35.173	17.329	19.416	1.00	37.36
ATOM	18580	C	ASP	2784	33.445	13.519	19.134	1.00	22.89
ATOM	18581	O	ASP	2784	33.113	13.381	18.176	1.00	22.27
ATOM	18582	N	LEU	2785	34.151	12.641	19.813	1.00	22.16
ATOM	18583	CA	LEU	2785	33.566	11.633	20.718	1.00	21.83
ATOM	18584	CB	LEU	2785	34.278	10.367	20.738	1.00	21.35
ATOM	18585	CG	LEU	2785	34.145	9.458	19.559	1.00	21.96

ATOM	18586	CD1	LEU	2785	34.687	8.077	19.896	1.00	22.46
ATOM	18587	CD2	LEU	2785	32.680	9.256	19.147	1.00	22.46
ATOM	18588	C	LEU	2785	33.629	12.440	22.032	1.00	23.06
ATOM	18589	O	LEU	2785	34.738	12.760	22.472	1.00	25.15
ATOM	18590	N	PRO	2786	32.495	12.771	22.658	1.00	22.63
ATOM	18591	CD	PRO	2786	31.154	12.348	22.085	1.00	22.73
ATOM	18592	CA	PRO	2786	31.487	12.509	22.925	1.00	22.73
ATOM	18593	CB	PRO	2786	30.995	13.690	24.200	1.00	22.61
ATOM	18594	CG	PRO	2786	30.400	12.444	23.604	1.00	24.05
ATOM	18595	C	PRO	2786	33.201	12.840	25.084	1.00	22.35
ATOM	18596	O	PRO	2786	34.774	11.761	24.945	1.00	23.47
ATOM	18597	N	PHE	2787	33.117	13.511	26.132	1.00	23.08
ATOM	18598	CA	PHE	2787	33.171	13.636	27.464	1.00	21.95
ATOM	18599	CB	PHE	2787	33.778	12.979	28.699	1.00	24.14
ATOM	18600	CG	PHE	2787	32.721	12.461	29.074	1.00	25.46
ATOM	18601	CD1	PHE	2787	32.047	12.082	30.355	1.00	26.82
ATOM	18602	CD2	PHE	2787	32.514	13.531	30.835	1.00	29.32
ATOM	18603	CE1	PHE	2787	32.368	12.802	31.134	1.00	29.15
ATOM	18604	CE2	PHE	2787	32.615	12.671	32.157	1.00	30.25
ATOM	18605	CZ	PHE	2787	34.216	12.496	32.719	1.00	31.24
ATOM	18606	C	PHE	2787	32.319	12.348	32.820	1.00	20.61
ATOM	18607	O	PHE	2787	34.194	12.260	32.738	1.00	21.11
ATOM	18608	N	MET	2788	34.114	12.766	28.791	1.00	19.36
ATOM	18609	CA	MET	2788	34.116	9.364	28.432	1.00	20.31
ATOM	18610	CB	MET	2788	32.417	9.169	28.343	1.00	21.12
ATOM	18611	CG	MET	2788	32.645	7.961	27.146	1.00	24.11
ATOM	18612	SD	MET	2788	31.907	7.049	26.817	1.00	25.11
ATOM	18613	CE	MET	2788	32.761	9.174	27.144	1.00	27.30
ATOM	18614	C	MET	2788	32.405	8.755	27.385	1.00	19.16
ATOM	18615	O	MET	2788	32.711	7.516	27.375	1.00	22.61
ATOM	18616	N	ALA	2789	32.430	9.020	26.182	1.00	19.87
ATOM	18617	CA	ALA	2789	32.114	8.321	25.169	1.00	18.67
ATOM	18618	CB	ALA	2789	31.116	9.316	24.946	1.00	19.65
ATOM	18619	C	ALA	2789	32.617	7.172	24.460	1.00	19.67
ATOM	18620	O	ALA	2789	32.195	6.736	24.312	1.00	18.11
ATOM	18621	N	TYR	2790	34.330	22.112	24.662	1.00	19.15
ATOM	18622	CA	TYR	2790	33.112	4.150	24.387	1.00	20.39
ATOM	18623	CB	TYR	2790	32.631	6.411	24.146	1.00	21.62
ATOM	18624	CG	TYR	2790	32.338	8.111	24.612	1.00	21.16
ATOM	18625	CD1	TYR	2790	32.119	8.111	24.612	1.00	24.11
ATOM	18626	CE1	TYR	2790	29.009	9.611	24.662	1.00	26.09
ATOM	18627	CD2	TYR	2790	32.441	9.411	24.685	1.00	22.15
ATOM	18628	CE2	TYR	2790	32.611	12.667	24.381	1.00	25.11
ATOM	18629	CZ	TYR	2790	32.351	12.366	24.616	1.00	26.11
ATOM	18630	OH	TYR	2790	28.151	12.366	24.138	1.00	28.16
ATOM	18631	C	TYR	2790	32.110	8.665	24.341	1.00	21.11
ATOM	18632	O	TYR	2790	32.605	7.411	24.009	1.00	20.15
ATOM	18633	N	ALA	2791	32.116	7.147	26.101	1.00	20.61
ATOM	18634	CA	ALA	2791	32.363	4.311	25.649	1.00	21.09
ATOM	18635	CB	ALA	2791	31.957	4.894	24.876	1.00	23.08
ATOM	18636	C	ALA	2791	32.401	4.166	24.343	1.00	21.97
ATOM	18637	O	ALA	2791	31.361	3.166	25.344	1.00	22.62
ATOM	18638	N	THR	2792	32.140	2.366	26.491	1.00	20.10
ATOM	18639	CA	THR	2792	32.116	2.411	26.111	1.00	20.10
ATOM	18640	CB	THR	2792	32.348	0.311	26.186	1.00	21.59
ATOM	18641	OG1	THR	2792	32.110	0.310	26.110	1.00	23.16
ATOM	18642	OG2	THR	2792	32.110	0.310	24.110	1.00	20.10
ATOM	18643	C	THR	2792	32.110	1.311	24.616	1.00	21.15
ATOM	18644	O	THR	2792	32.110	1.310	24.952	1.00	19.17
ATOM	18645	N	PRO	2793	32.411	0.511	23.941	1.00	21.10
ATOM	18646	CD	PRO	2793	32.461	-0.267	24.171	1.00	22.11
ATOM	18647	CA	PRO	2793	32.711	0.311	22.494	1.00	22.11
ATOM	18648	CB	PRO	2793	32.711	-0.711	22.117	1.00	23.16
ATOM	18649	CG	PRO	2793	32.309	-0.111	23.233	1.00	24.11
ATOM	18650	C	PRO	2793	32.299	-0.511	22.037	1.00	21.17
ATOM	18651	O	PRO	2793	32.741	0.491	21.124	1.00	20.91
ATOM	18652	N	GLU	2794	32.691	-0.911	22.867	1.00	22.03
ATOM	18653	CA	GLU	2794	32.341	-1.412	22.988	1.00	23.14
ATOM	18654	CB	GLU	2794	32.911	-2.462	23.603	1.00	25.17
ATOM	18655	CG	GLU	2794	32.711	-3.362	23.157	1.00	31.17
ATOM	18656	CD	GLU	2794	32.483	-4.484	24.143	1.00	37.12
ATOM	18657	OE1	GLU	2794	32.076	-4.182	25.129	1.00	33.19
ATOM	18658	OE2	GLU	2794	32.659	-5.669	23.771	1.00	34.13
ATOM	18659	C	GLU	2794	32.367	-0.231	22.628	1.00	31.49
ATOM	18660	O	GLU	2794	32.536	-0.073	21.734	1.00	18.16
ATOM	18661	N	GLN	2795	33.465	0.609	23.652	1.00	19.17
ATOM	18662	CA	GLN	2795	32.974	1.756	23.728	1.00	18.97

ATOM	1-663	CB	GLN	2795	32.708	2.444	25.086	1.00	23.38
ATOM	1-664	CG	GLN	2795	32.274	1.563	26.219	1.00	30.06
ATOM	1-665	CD	GLN	2795	32.302	7.296	27.515	1.00	37.76
ATOM	1-666	OE1	GLN	2795	31.557	3.257	27.745	1.00	37.24
ATOM	1-667	NE2	GLN	2795	33.164	1.854	23.413	1.00	37.36
ATOM	1-668	C	GLN	2795	32.883	2.738	22.861	1.00	18.75
ATOM	1-669	O	GLN	2795	31.979	5.379	22.045	1.00	16.21
ATOM	1-670	N	ALA	2796	34.160	1.851	21.211	1.00	11.68
ATOM	1-671	CA	ALA	2796	34.561	5.740	21.111	1.00	16.70
ATOM	1-672	CB	ALA	2796	26.672	3.731	21.019	1.00	17.78
ATOM	1-673	C	ALA	2796	33.909	5.706	19.844	1.00	15.71
ATOM	1-674	O	ALA	2796	32.408	4.146	19.047	1.00	15.16
ATOM	1-675	N	PHE	2797	33.897	2.002	19.517	1.00	16.19
ATOM	1-676	CA	PHE	2797	33.202	1.508	18.119	1.00	16.66
ATOM	1-677	CB	PHE	2797	32.374	-0.021	18.113	1.00	15.73
ATOM	1-678	CG	PHE	2797	34.049	-0.596	18.440	1.00	16.24
ATOM	1-679	CD1	PHE	2797	35.882	0.081	18.613	1.00	17.94
ATOM	1-680	CD2	PHE	2797	34.907	-1.811	18.118	1.00	17.17
ATOM	1-681	CE1	PHE	2797	37.153	-0.457	18.111	1.00	20.94
ATOM	1-682	CE2	PHE	2797	36.175	-2.369	18.111	1.00	20.14
ATOM	1-683	CZ	PHE	2797	35.129	-1.878	18.111	1.00	18.91
ATOM	1-684	O	PHE	2797	31.810	1.911	18.111	1.00	15.77
ATOM	1-685	O	PHE	2797	31.148	2.438	18.111	1.00	14.05
ATOM	1-686	N	GLU	2798	31.135	1.682	18.111	1.00	15.71
ATOM	1-687	CA	GLU	2798	29.637	2.011	18.111	1.00	16.19
ATOM	1-688	CB	GLU	2798	29.139	1.537	20.341	1.00	25.46
ATOM	1-689	CG	GLU	2798	21.645	1.14	20.341	1.00	25.48
ATOM	1-690	CH	GLU	2798	28.801	8.321	18.947	1.00	31.12
ATOM	1-691	OE1	GLU	2798	27.760	-0.151	18.947	1.00	34.10
ATOM	1-692	OE2	GLU	2798	25.667	1.151	18.947	1.00	34.45
ATOM	1-693	O	GLU	2798	29.379	3.550	18.111	1.00	17.80
ATOM	1-694	O	GLU	2798	28.510	3.881	18.947	1.00	16.21
ATOM	1-695	N	ASN	2799	30.032	4.761	18.947	1.00	15.26
ATOM	1-696	CA	ASN	2799	28.808	5.796	18.947	1.00	16.13
ATOM	1-697	CB	ASN	2799	30.431	6.523	21.019	1.00	17.15
ATOM	1-698	CG	ASN	2799	29.710	6.121	22.349	1.00	20.67
ATOM	1-699	OD1	ASN	2799	28.435	5.831	21.019	1.00	17.99
ATOM	1-700	NE2	ASN	2799	31.474	6.611	21.411	1.00	17.95
ATOM	1-701	O	ASN	2799	30.187	6.411	18.947	1.00	18.61
ATOM	1-702	C	ASN	2799	29.615	7.311	18.011	1.00	15.62
ATOM	1-703	N	ALA	2800	31.139	5.911	18.019	1.00	18.10
ATOM	1-704	CA	ALA	2800	31.891	6.191	18.748	1.00	18.55
ATOM	1-705	CB	ALA	2800	33.233	5.751	18.441	1.00	14.64
ATOM	1-706	C	ALA	2800	30.885	6.051	18.611	1.00	16.73
ATOM	1-707	O	ALA	2800	30.570	6.877	14.711	1.00	17.09
ATOM	1-708	N	ALA	2801	30.375	4.821	15.618	1.00	16.50
ATOM	1-709	CA	ALA	2801	29.413	4.411	14.613	1.00	16.96
ATOM	1-710	CB	ALA	2801	29.623	3.991	14.861	1.00	17.94
ATOM	1-711	C	ALA	2801	28.180	5.101	14.316	1.00	15.19
ATOM	1-712	O	ALA	2801	27.618	5.661	13.616	1.00	13.52
ATOM	1-713	N	THR	2802	27.765	5.671	15.914	1.00	16.31
ATOM	1-714	CA	THR	2802	26.596	6.521	16.012	1.00	15.68
ATOM	1-715	CB	THR	2802	26.265	6.891	17.512	1.00	16.15
ATOM	1-716	OG1	THR	2802	25.995	5.577	13.112	1.00	14.15
ATOM	1-717	OG2	THR	2802	25.041	7.711	17.511	1.00	14.96
ATOM	1-718	C	THR	2802	26.178	7.861	15.369	1.00	16.13
ATOM	1-719	O	THR	2802	25.895	8.311	14.316	1.00	17.22
ATOM	1-720	N	VAL	2803	27.921	8.519	15.520	1.00	15.43
ATOM	1-721	CA	VAL	2803	28.186	9.711	14.316	1.00	17.54
ATOM	1-722	CB	VAL	2803	27.380	10.511	15.544	1.00	18.75
ATOM	1-723	CG1	VAL	2803	29.719	11.761	14.316	1.00	23.46
ATOM	1-724	CG2	VAL	2803	29.023	10.813	17.318	1.00	20.56
ATOM	1-725	C	VAL	2803	28.449	9.861	15.118	1.00	18.45
ATOM	1-726	O	VAL	2803	28.136	10.971	12.574	1.00	15.21
ATOM	1-727	N	MET	2804	29.019	9.547	13.311	1.00	18.31
ATOM	1-728	CA	MET	2804	29.303	8.381	11.519	1.00	17.14
ATOM	1-729	CB	MET	2804	30.239	7.691	11.410	1.00	18.19
ATOM	1-730	CG	MET	2804	31.854	7.291	11.915	1.00	22.52
ATOM	1-731	SD	MET	2804	32.594	3.461	10.310	1.00	24.27
ATOM	1-732	CE	MET	2804	32.659	4.511	9.412	1.00	20.51
ATOM	1-733	C	MET	2804	29.984	3.613	10.913	1.00	16.01
ATOM	1-734	O	MET	2804	27.761	3.613	9.814	1.00	15.88
ATOM	1-735	N	ARG	2805	27.161	4.243	11.431	1.00	15.73
ATOM	1-736	CA	ARG	2805	26.417	6.947	10.811	1.00	15.34
ATOM	1-737	CB	ARG	2805	25.011	5.925	11.596	1.00	13.01
ATOM	1-738	CG	ARG	2805	25.647	4.539	11.631	1.00	16.75
ATOM	1-739	C	ARG	2805	24.141	3.449	10.010	1.00	13.35

ATOM	18740	NE	ARG	2805	25.314	2.212	12.432	1.00	18.35
ATOM	18741	CZ	ARG	2805	25.767	1.941	13.652	1.00	16.28
ATOM	18742	NH1	ARG	2805	25.609	2.839	14.630	1.00	18.45
ATOM	18743	NH2	ARG	2805	26.369	0.789	13.394	1.00	11.59
ATOM	18744	C	ARG	2805	24.999	8.268	10.718	1.00	15.55
ATOM	18745	C	ARG	2805	24.139	8.404	9.817	1.00	14.99
ATOM	18746	N	ALA	2806	25.232	9.207	11.657	1.00	16.80
ATOM	18747	CA	ALA	2806	24.562	10.473	11.659	1.00	16.61
ATOM	18748	CB	ALA	2806	24.548	11.095	13.030	1.00	16.95
ATOM	18749	C	ALA	2806	24.997	11.483	10.602	1.00	18.90
ATOM	18750	O	ALA	2806	24.415	12.567	10.406	1.00	16.85
ATOM	18751	N	GLY	2807	26.062	11.144	9.880	1.00	17.66
ATOM	18752	CA	GLY	2807	26.511	12.055	8.842	1.00	20.63
ATOM	18753	C	GLY	2807	28.642	12.744	8.866	1.00	19.66
ATOM	18754	O	GLY	2807	28.582	12.841	7.873	1.00	20.33
ATOM	18755	N	ALA	2808	28.706	12.639	9.071	1.00	20.84
ATOM	18756	CA	ALA	2808	30.141	12.779	10.094	1.00	20.51
ATOM	18757	CE	ALA	2808	30.196	12.606	11.732	1.00	21.43
ATOM	18758	C	ALA	2808	30.983	12.143	9.140	1.00	21.22
ATOM	18759	C	ALA	2808	30.581	10.740	8.134	1.00	21.71
ATOM	18760	C	ASN	2809	31.114	11.754	8.133	1.00	21.83
ATOM	18761	CA	ASN	2809	32.076	11.732	7.191	1.00	21.33
ATOM	18762	CE	ASN	2809	32.561	12.161	8.116	1.00	21.14
ATOM	18763	CG	ASN	2809	32.474	12.563	7.117	1.00	21.87
ATOM	18764	CD1	ASN	2809	31.770	12.715	7.101	1.00	26.10
ATOM	18765	ND2	ASN	2809	32.379	12.836	5.167	1.00	24.82
ATOM	18766	C	ASN	2809	34.181	10.878	8.121	1.00	23.37
ATOM	18767	O	ASN	2809	34.931	9.883	8.133	1.00	21.69
ATOM	18768	N	MET	2810	34.505	11.111	8.111	1.00	21.60
ATOM	18769	CA	MET	2810	35.641	12.147	10.669	1.00	21.81
ATOM	18770	CE	MET	2810	36.811	12.115	10.181	1.00	23.55
ATOM	18771	CG	MET	2810	38.114	12.119	10.681	1.00	24.13
ATOM	18772	N	MET	2810	39.431	12.342	10.151	1.00	28.08
ATOM	18773	CE	MET	2810	40.183	12.181	9.187	1.00	27.17
ATOM	18774	C	MET	2810	38.118	12.111	11.111	1.00	21.82
ATOM	18775	O	MET	2810	34.490	12.163	11.111	1.00	22.79
ATOM	18776	N	VAL	2811	35.972	10.112	11.111	1.00	21.53
ATOM	18777	CZ	VAL	2811	35.767	12.144	14.142	1.00	21.27
ATOM	18778	CB	VAL	2811	35.343	12.141	12.116	1.00	23.63
ATOM	18779	CG1	VAL	2811	35.310	10.142	13.119	1.00	27.22
ATOM	18780	CG2	VAL	2811	35.913	9.133	14.111	1.00	23.31
ATOM	18781	O	VAL	2811	37.013	11.161	11.111	1.00	21.34
ATOM	18782	O	VAL	2811	38.111	11.111	14.119	1.00	20.38
ATOM	18783	N	LYS	2812	36.913	12.111	16.111	1.00	21.70
ATOM	18784	CA	LYS	2812	38.066	13.113	16.731	1.00	21.55
ATOM	18785	CB	LYS	2812	38.111	14.112	16.111	1.00	20.79
ATOM	18786	CG	LYS	2812	39.111	13.111	17.111	1.00	22.42
ATOM	18787	CH	LYS	2812	39.567	16.111	16.111	1.00	21.07
ATOM	18788	CE	LYS	2812	38.593	15.111	15.111	1.00	21.51
ATOM	18789	N7	LYS	2812	38.529	17.111	18.111	1.00	19.95
ATOM	18790	O	LYS	2812	38.017	13.111	18.111	1.00	21.69
ATOM	18791	O	LYS	2812	37.009	12.111	18.111	1.00	20.83
ATOM	18792	N	ILE	2813	39.111	13.111	18.119	1.00	23.63
ATOM	18793	CA	ILE	2813	39.111	12.111	20.111	1.00	23.12
ATOM	18794	CH	ILE	2813	39.341	19.111	20.111	1.00	26.14
ATOM	18795	CG1	ILE	2813	38.018	19.111	19.111	1.00	25.11
ATOM	18796	CG2	ILE	2813	40.415	19.111	19.111	1.00	21.65
ATOM	18797	CD1	ILE	2813	40.713	19.111	19.111	1.00	28.11
ATOM	18798	O	ILE	2813	40.542	13.111	20.111	1.00	27.72
ATOM	18799	O	ILE	2813	41.510	12.111	20.111	1.00	26.81
ATOM	18800	N	GLU	2814	40.414	13.111	21.111	1.00	23.41
ATOM	18801	CA	GLU	2814	41.191	13.111	21.111	1.00	30.11
ATOM	18802	CB	GLU	2814	41.106	14.111	21.111	1.00	34.11
ATOM	18803	CG	GLU	2814	40.144	13.111	21.111	1.00	32.11
ATOM	18804	CD	GLU	2814	39.164	13.111	21.111	1.00	41.11
ATOM	18805	OE1	GLU	2814	39.170	13.111	21.111	1.00	41.11
ATOM	18806	OE2	GLU	2814	39.152	13.111	21.111	1.00	44.11
ATOM	18807	C	GLU	2814	42.164	13.111	21.111	1.00	41.11
ATOM	18808	O	GLU	2814	41.779	13.111	21.111	1.00	41.11
ATOM	18809	N	GLY	2815	43.684	12.111	23.111	1.00	36.11
ATOM	18810	CA	GLY	2815	44.506	11.729	24.111	1.00	30.11
ATOM	18811	C	GLY	2815	45.801	11.392	23.111	1.00	31.11
ATOM	18812	O	GLY	2815	45.975	11.795	23.111	1.00	31.11
ATOM	18813	N	GLY	2816	46.715	13.748	24.111	1.00	31.11
ATOM	18814	CA	GLY	2816	47.992	13.387	23.547	1.00	33.11
ATOM	18815	C	GLY	2816	48.172	13.793	23.794	1.00	34.11
ATOM	18816	O	GLY	2816	48.172	13.793	23.794	1.00	34.11

ATOM	18817	N	GLU	2817	49.285	8.364	23.783	1.00	34.03
ATOM	18818	CA	GLU	2817	49.631	6.955	23.615	1.00	34.66
ATOM	18819	CB	GLU	2817	50.921	6.647	24.376	1.00	37.31
ATOM	18820	CG	GLU	2817	52.197	7.025	25.624	1.00	40.46
ATOM	18821	CD	GLU	2817	52.580	5.990	22.591	1.00	42.88
ATOM	18822	OE1	GLU	2817	51.711	5.590	21.793	1.00	44.31
ATOM	18823	OE2	GLU	2817	51.765	5.582	22.507	1.00	43.78
ATOM	18824	O	GLU	2817	48.569	5.946	24.652	1.00	32.69
ATOM	18825	O	GLU	2817	48.395	4.913	25.569	1.00	34.29
ATOM	18826	N	TRP	2818	47.866	6.210	25.117	1.00	31.46
ATOM	18827	CA	TRP	2818	46.855	5.290	25.613	1.00	30.43
ATOM	18828	CB	TRP	2818	46.154	5.753	26.942	1.00	30.40
ATOM	18829	CG	TRP	2818	45.191	6.930	26.812	1.00	29.06
ATOM	18830	CD2	TRP	2818	43.862	6.856	26.801	1.00	28.87
ATOM	18831	CE2	TRP	2818	43.467	8.166	26.608	1.00	28.69
ATOM	18832	CE3	TRP	2818	41.350	5.291	26.941	1.00	27.56
ATOM	18833	CD1	TRP	2818	45.601	8.212	26.684	1.00	26.39
ATOM	18834	NE1	TRP	2818	44.448	5.005	26.619	1.00	26.25
ATOM	18835	CZ2	TRP	2818	41.497	8.451	26.607	1.00	27.17
ATOM	18836	CE3	TRP	2818	41.390	6.674	26.916	1.00	27.25
ATOM	18837	CH	TRP	2818	41.127	7.599	26.774	1.00	27.62
ATOM	18838	O	TRP	2818	43.431	5.645	24.664	1.00	28.09
ATOM	18839	O	TRP	2818	43.964	4.101	24.731	1.00	26.21
ATOM	18840	N	LEU	2819	43.656	5.892	23.533	1.00	27.25
ATOM	18841	CA	LEU	2819	44.617	5.541	23.579	1.00	26.47
ATOM	18842	CB	LEU	2819	43.131	7.312	23.115	1.00	26.77
ATOM	18843	CG	LEU	2819	43.445	7.896	23.081	1.00	28.13
ATOM	18844	CD1	LEU	2819	43.926	5.157	23.487	1.00	29.41
ATOM	18845	CD2	LEU	2819	43.965	5.111	23.508	1.00	29.43
ATOM	18846	E	LEU	2819	43.040	4.550	21.504	1.00	25.11
ATOM	18847	O	LEU	2819	43.318	4.647	20.407	1.00	21.39
ATOM	18848	N	VAL	2820	43.115	4.550	21.200	1.00	24.43
ATOM	18849	CA	VAL	2820	43.614	3.787	20.113	1.00	26.06
ATOM	18850	CB	VAL	2820	43.358	3.131	20.306	1.00	25.68
ATOM	18851	CG1	VAL	2820	43.601	3.500	19.101	1.00	27.00
ATOM	18852	CG2	VAL	2820	43.310	4.401	20.446	1.00	26.43
ATOM	18853	O	VAL	2820	43.042	2.585	19.774	1.00	25.78
ATOM	18854	O	VAL	2820	43.603	2.471	18.601	1.00	25.06
ATOM	18855	N	ALA	2821	43.304	3.686	20.709	1.00	24.73
ATOM	18856	CA	ALA	2821	43.695	3.514	20.477	1.00	23.60
ATOM	18857	CB	ALA	2821	43.382	-0.321	21.765	1.00	23.96
ATOM	18858	CG	ALA	2821	43.051	-1.643	21.534	1.00	23.13
ATOM	18859	CD	ALA	2821	43.926	-2.416	20.830	1.00	23.13
ATOM	18860	OE1	ALA	2821	43.340	-1.801	23.830	1.00	30.06
ATOM	18861	OE2	ALA	2821	43.410	-3.566	23.927	1.00	30.11
ATOM	18862	O	ALA	2821	43.501	0.876	19.662	1.00	24.62
ATOM	18863	C	GLU	2822	42.979	0.176	16.846	1.00	21.95
ATOM	18864	N	THR	2822	42.906	1.995	20.549	1.00	24.39
ATOM	18865	CA	THR	2822	43.668	2.506	20.141	1.00	23.89
ATOM	18866	CB	THR	2822	43.021	3.415	21.939	1.00	24.68
ATOM	18867	CG1	THR	2822	43.329	2.868	22.422	1.00	24.11
ATOM	18868	CG2	THR	2822	39.635	3.842	20.691	1.00	23.04
ATOM	18869	C	THR	2822	41.690	2.876	19.135	1.00	24.63
ATOM	18870	O	THR	2822	43.671	2.631	17.627	1.00	21.37
ATOM	18871	N	VAL	2823	42.646	3.011	19.331	1.00	23.33
ATOM	18872	CA	VAL	2823	43.785	4.110	17.041	1.00	23.79
ATOM	18873	CB	VAL	2823	44.002	5.116	16.461	1.00	23.30
ATOM	18874	CG1	VAL	2823	43.159	5.838	15.535	1.00	23.93
ATOM	18875	CG2	VAL	2823	43.315	6.176	17.628	1.00	23.50
ATOM	18876	O	VAL	2823	43.648	3.103	16.005	1.00	23.13
ATOM	18877	C	VAL	2823	42.373	3.063	14.674	1.00	21.77
ATOM	18878	N	GLN	2824	43.833	2.117	16.296	1.00	24.09
ATOM	18879	CA	GLN	2824	44.165	1.500	15.395	1.00	23.30
ATOM	18880	CB	GLN	2824	43.158	0.508	16.305	1.00	23.01
ATOM	18881	CG	GLN	2824	43.455	0.337	16.233	1.00	33.53
ATOM	18882	CD	GLN	2824	42.491	-0.229	16.903	1.00	33.73
ATOM	18883	OE1	GLN	2824	47.243	-0.591	17.917	1.00	33.11
ATOM	18884	NE2	GLN	2824	46.656	-0.12	16.267	1.00	33.21
ATOM	18885	O	GLN	2824	43.843	-0.097	15.101	1.00	24.85
ATOM	18886	O	GLN	2824	43.513	-0.577	13.946	1.00	23.34
ATOM	18887	N	MET	2825	42.126	-0.167	16.155	1.00	23.92
ATOM	18888	CA	MET	2825	40.905	-0.446	16.013	1.00	22.30
ATOM	18889	CB	MET	2825	40.436	-1.326	17.383	1.00	23.39
ATOM	18890	CG	MET	2825	41.414	-2.396	18.024	1.00	24.85
ATOM	18891	CD	MET	2825	43.854	-3.051	19.584	1.00	26.27
ATOM	18892	CE	MET	2825	46.744	-4.323	19.026	1.00	27.47
ATOM	18893	O	MET	2825	43.795	-6.196	15.733	1.00	26.99

ATOM	18894	O	MET	2825	39.024	-0.797	14.543	1.00	19.10
ATOM	18895	N	LEU	2826	39.685	-1.109	15.137	1.00	20.85
ATOM	18896	CA	LEU	2826	38.615	-1.915	14.897	1.00	22.61
ATOM	18897	CB	LEU	2826	38.620	-3.325	15.488	1.00	20.71
ATOM	18898	CG	LEU	2826	37.867	-3.457	16.819	1.00	23.07
ATOM	18899	CD1	LEU	2826	38.185	-4.785	17.485	1.00	21.86
ATOM	18900	CD2	LEU	2826	36.375	-3.737	16.548	1.00	21.56
ATOM	18901	C	LEU	2826	38.885	-1.996	17.387	1.00	24.44
ATOM	18902	O	LEU	2826	37.944	-1.870	17.197	1.00	22.55
ATOM	18903	N	THR	2827	40.115	-1.264	17.990	1.00	26.28
ATOM	18904	CA	THR	2827	40.474	-2.701	17.938	1.00	29.53
ATOM	18905	CB	THR	2827	41.988	-2.511	17.983	1.00	26.31
ATOM	18906	CG1	THR	2827	42.181	-3.754	17.610	1.00	14.27
ATOM	18907	CG2	THR	2827	42.527	-2.588	19.902	1.00	53.86
ATOM	18908	C	THR	2827	40.674	-1.066	16.795	1.00	27.89
ATOM	18909	O	THR	2827	39.949	-1.151	19.776	1.00	28.81
ATOM	18910	N	GLU	2828	40.416	-0.121	17.258	1.00	28.30
ATOM	18911	CA	GLU	2828	40.631	-1.155	16.990	1.00	28.55
ATOM	18912	CB	GLU	2828	40.775	-2.553	17.179	1.00	30.11
ATOM	18913	CG	GLU	2828	41.107	-2.464	17.638	1.00	31.98
ATOM	18914	CD	GLU	2828	41.958	-3.614	17.186	1.00	30.11
ATOM	18915	OE1	GLU	2828	42.356	-4.547	17.554	1.00	27.18
ATOM	18916	OE2	GLU	2828	41.435	-4.154	14.175	1.00	16.79
ATOM	18918	O	GLU	2828	38.630	-1.189	16.551	1.00	25.89
ATOM	18919	N	ARG	2829	37.829	-0.857	17.444	1.00	23.40
ATOM	18920	CA	ARG	2829	36.184	-0.997	17.317	1.00	32.10
ATOM	18921	CB	ARG	2829	36.901	-1.037	17.972	1.00	29.71
ATOM	18922	CG	ARG	2829	36.141	-2.378	18.619	1.00	19.38
ATOM	18923	CD	ARG	2829	36.188	-3.294	19.140	1.00	18.10
ATOM	18924	NE	ARG	2829	36.640	-3.585	19.779	1.00	16.89
ATOM	18925	CZ	ARG	2829	37.869	-4.112	19.666	1.00	17.72
ATOM	18926	NH1	ARG	2829	38.115	-3.419	19.605	1.00	18.97
ATOM	18927	NH2	ARG	2829	38.102	-5.105	16.101	1.00	21.35
ATOM	18928	C	ARG	2829	36.674	-0.164	18.779	1.00	26.80
ATOM	18929	O	ARG	2829	34.779	-0.458	17.348	1.00	18.63
ATOM	18930	N	ALA	2830	36.108	-0.642	17.277	1.00	21.90
ATOM	18931	CA	ALA	2830	36.803	-1.680	17.876	1.00	21.95
ATOM	18932	CB	ALA	2830	34.173	-1.125	17.175	1.00	21.04
ATOM	18933	C	ALA	2830	36.690	-3.086	17.411	1.00	21.69
ATOM	18934	O	ALA	2830	35.042	-3.957	17.878	1.00	22.61
ATOM	18935	N	VAL	2831	36.397	-3.347	16.559	1.00	22.14
ATOM	18936	CA	VAL	2831	36.194	-4.660	17.154	1.00	22.55
ATOM	18937	CB	VAL	2831	35.673	-3.570	17.651	1.00	23.25
ATOM	18938	CG1	VAL	2831	35.612	-5.957	12.154	1.00	22.11
ATOM	18939	CG2	VAL	2831	34.300	-3.910	15.654	1.00	21.29
ATOM	18940	C	VAL	2831	37.320	-5.427	17.117	1.00	22.83
ATOM	18941	O	VAL	2831	38.433	-0.051	17.940	1.00	21.58
ATOM	18942	N	PRO	2832	37.554	-6.490	16.763	1.00	22.74
ATOM	18943	CD	PRO	2832	36.681	-6.961	17.350	1.00	23.21
ATOM	18944	CA	PRO	2832	38.157	-7.059	16.350	1.00	21.36
ATOM	18945	CB	PRO	2832	38.710	-8.110	17.051	1.00	24.46
ATOM	18946	C3	PRO	2832	37.241	-8.305	17.011	1.00	26.31
ATOM	18947	C	PRO	2832	38.361	-8.113	17.611	1.00	25.36
ATOM	18948	O	PRO	2832	37.954	-8.944	17.107	1.00	26.50
ATOM	18949	N	VAL	2833	40.153	-5.254	17.114	1.00	25.46
ATOM	18950	CA	VAL	2833	40.332	-9.015	17.365	1.00	24.56
ATOM	18951	CB	VAL	2833	40.985	-3.147	17.456	1.00	25.09
ATOM	18952	CG1	VAL	2833	41.961	-3.909	17.775	1.00	26.15
ATOM	18953	CG2	VAL	2833	40.167	-6.863	17.617	1.00	26.15
ATOM	18954	C	VAL	2833	41.235	-10.294	17.213	1.00	26.06
ATOM	18955	O	VAL	2833	42.115	-13.297	17.113	1.00	22.56
ATOM	18956	N	CYS	2834	40.831	-11.375	17.913	1.00	26.84
ATOM	18957	CA	CYS	2834	41.559	-12.583	17.913	1.00	27.69
ATOM	18958	CB	CYS	2834	40.683	-13.713	17.513	1.00	27.35
ATOM	18959	B3	CYS	2834	41.516	-15.363	14.665	1.00	27.15
ATOM	18960	C	CYS	2834	42.095	-12.734	15.363	1.00	28.35
ATOM	18961	O	CYS	2834	41.316	-12.977	16.267	1.00	26.83
ATOM	18962	N	GLY	2835	42.413	-12.775	15.508	1.00	29.72
ATOM	18963	CA	GLY	2835	44.014	-13.373	16.816	1.00	29.25
ATOM	18964	C	GLY	2835	41.832	-14.381	17.336	1.00	30.47
ATOM	18965	O	GLY	2835	45.440	-15.238	16.590	1.00	28.61
ATOM	18966	N	HIS	2836	44.150	-14.561	18.634	1.00	31.64
ATOM	18967	CA	HIS	2836	42.971	-15.862	19.274	1.00	35.35
ATOM	18968	CB	HIS	2836	42.553	-16.033	18.816	1.00	36.73
ATOM	18969	CG	HIS	2836	42.176	-17.346	20.366	1.00	38.15
ATOM	18970	CH	HIS	2836	42.151	-18.997	21.499	1.00	36.91

ATOM	18971	ND1	HIS	2836	41.313	18.226	19.837	1.00	39.91
ATOM	18972	CE1	HIS	2836	41.174	19.350	20.531	1.00	41.13
ATOM	18973	NE2	HIS	2836	42.180	19.278	21.490	1.00	41.39
ATOM	18974	C	HIS	2836	44.973	19.941	20.470	1.00	36.82
ATOM	18975	O	HIS	2836	44.860	18.791	21.452	1.00	34.99
ATOM	18976	N	LEU	2837	45.038	19.747	20.231	1.00	38.71
ATOM	18977	CA	LEU	2837	47.059	19.905	21.239	1.00	41.31
ATOM	18978	CB	LEU	2837	48.335	19.279	20.745	1.00	40.42
ATOM	18979	CG	LEU	2837	48.341	18.765	20.510	1.00	40.47
ATOM	18980	CD1	LEU	2837	49.009	18.330	19.784	1.00	41.01
ATOM	18981	CD2	LEU	2837	48.101	18.051	21.840	1.00	41.35
ATOM	18982	C	LEU	2837	47.185	18.377	21.157	1.00	43.49
ATOM	18983	O	LEU	2837	47.981	19.249	20.745	1.00	43.31
ATOM	18984	N	GLY	2838	47.810	18.647	22.743	1.00	46.70
ATOM	18985	CA	GLY	2838	48.677	20.618	23.141	1.00	50.65
ATOM	18986	C	GLY	2838	47.859	20.378	24.405	1.00	51.80
ATOM	18987	O	GLY	2838	47.800	20.011	25.514	1.00	54.17
ATOM	18988	N	LEU	2839	48.256	21.091	24.297	1.00	50.12
ATOM	18989	CA	LEU	2839	48.466	21.105	25.477	1.00	58.86
ATOM	18990	CB	LEU	2839	47.562	20.602	25.490	1.00	58.83
ATOM	18991	CG	LEU	2839	48.019	20.710	26.837	1.00	59.51
ATOM	18992	CD1	LEU	2839	48.178	20.705	28.065	1.00	60.17
ATOM	18993	CD2	LEU	2839	48.061	20.394	28.202	1.00	59.46
ATOM	18994	C	LEU	2839	44.074	20.801	28.737	1.00	60.70
ATOM	18995	O	LEU	2839	47.134	21.475	24.815	1.00	60.43
ATOM	18996	N	THR	2840	48.944	18.662	28.930	1.00	61.24
ATOM	18997	CA	THR	2840	48.671	18.940	28.834	1.00	61.35
ATOM	18998	CB	THR	2840	48.879	17.838	28.215	1.00	61.70
ATOM	18999	CD1	THR	2840	48.377	18.164	28.436	1.00	61.57
ATOM	19000	CD2	THR	2840	48.772	18.831	28.634	1.00	61.36
ATOM	19001	C	THR	2840	48.638	18.493	28.935	1.00	61.01
ATOM	19002	O	THR	2840	48.315	18.583	28.211	1.00	61.36
ATOM	19003	N	PRO	2841	48.177	20.090	28.460	1.00	61.41
ATOM	19004	CA	PRO	2841	48.118	20.721	28.046	1.00	61.65
ATOM	19005	CB	PRO	2841	48.155	20.058	28.311	1.00	61.37
ATOM	19006	CG	PRO	2841	48.839	21.457	28.330	1.00	61.32
ATOM	19007	CH	PRO	2841	48.764	20.748	28.217	1.00	64.34
ATOM	19008	C	PRO	2841	48.734	19.614	28.217	1.00	61.36
ATOM	19009	O	PRO	2841	48.124	18.951	28.236	1.00	61.33
ATOM	19010	N	GLN	2842	48.676	18.997	28.134	1.00	61.70
ATOM	19011	CA	GLN	2842	48.945	18.710	28.778	1.00	62.12
ATOM	19012	CB	GLN	2842	48.877	18.081	28.739	1.00	62.10
ATOM	19013	CG	GLN	2842	48.736	18.747	28.231	1.00	61.31
ATOM	19014	CD	GLN	2842	48.712	18.871	28.465	1.00	61.57
ATOM	19015	OE1	GLN	2842	48.650	18.771	28.616	1.00	61.39
ATOM	19016	NE2	GLN	2842	48.698	18.011	28.745	1.00	61.34
ATOM	19017	C	GLN	2842	48.785	18.745	28.531	1.00	61.31
ATOM	19018	O	GLN	2842	48.651	18.935	28.439	1.00	61.39
ATOM	19019	N	SER	2843	48.635	17.350	29.741	1.00	61.46
ATOM	19020	CA	SER	2843	48.557	18.060	28.011	1.00	61.52
ATOM	19021	CB	SER	2843	48.890	16.781	28.639	1.00	61.26
ATOM	19022	OG	SER	2843	48.690	18.191	29.847	1.00	61.14
ATOM	19023	C	SER	2843	48.810	18.747	28.708	1.00	61.57
ATOM	19024	O	SER	2843	48.005	18.355	28.330	1.00	62.21
ATOM	19025	N	VAL	2844	48.190	18.191	28.839	1.00	61.40
ATOM	19026	CA	VAL	2844	48.894	20.160	28.533	1.00	61.08
ATOM	19027	CB	VAL	2844	48.615	21.343	28.336	1.00	60.81
ATOM	19028	CG1	VAL	2844	48.785	20.699	28.764	1.00	60.34
ATOM	19029	CG2	VAL	2844	48.775	20.662	28.380	1.00	60.79
ATOM	19030	C	VAL	2844	48.066	20.352	28.101	1.00	61.01
ATOM	19031	O	VAL	2844	48.863	21.901	24.554	1.00	60.58
ATOM	19032	N	ASN	2845	49.189	18.751	28.444	1.00	61.15
ATOM	19033	CA	ASN	2845	48.469	18.947	28.071	1.00	61.73
ATOM	19034	CB	ASN	2845	48.384	17.748	28.449	1.00	60.56
ATOM	19035	CG	ASN	2845	48.370	18.343	28.339	1.00	59.61
ATOM	19036	CD1	ASN	2845	48.346	18.138	28.603	1.00	58.56
ATOM	19037	NE1	ASN	2845	48.349	17.924	28.775	1.00	59.70
ATOM	19038	C	ASN	2845	48.821	18.338	28.375	1.00	62.60
ATOM	19039	O	ASN	2845	48.296	18.619	27.686	1.00	61.03
ATOM	19040	N	ILE	2846	48.441	17.636	28.570	1.00	64.05
ATOM	19041	CA	ILE	2846	48.750	17.046	28.831	1.00	65.35
ATOM	19042	CB	ILE	2846	48.208	16.151	28.651	1.00	65.57
ATOM	19043	CG1	ILE	2846	44.609	18.612	28.915	1.00	65.70
ATOM	19044	CG2	ILE	2846	44.273	18.995	28.443	1.00	65.49
ATOM	19045	CD1	ILE	2846	42.118	18.057	28.643	1.00	65.41
ATOM	19046	C	ILE	2846	44.795	18.137	28.051	1.00	60.57
ATOM	19047	O	ILE	2846	44.340	18.197	27.976	1.00	60.37

ATOM	19048	N	PHE	2847	43.896	19.053	35.092	1.00	67.71
ATOM	19049	CA	PHE	2847	44.855	20.149	35.192	1.00	68.69
ATOM	19050	CB	PHE	2847	45.158	20.884	33.791	1.00	69.72
ATOM	19051	CG	PHE	2847	45.618	19.600	32.807	1.00	69.88
ATOM	19052	CD1	PHE	2847	46.776	18.809	33.055	1.00	70.09
ATOM	19053	CD2	PHE	2847	44.892	19.065	31.649	1.00	70.08
ATOM	19054	CE1	PHE	2847	47.206	17.918	31.164	1.00	70.40
ATOM	19055	CE2	PHE	2847	45.311	18.087	30.751	1.00	70.76
ATOM	19056	CZ	PHE	2847	44.471	17.061	31.009	1.00	70.54
ATOM	19057	C	PHE	2847	44.333	21.184	26.050	1.00	69.49
ATOM	19058	O	PHE	2847	41.040	22.000	36.759	1.00	69.68
ATOM	19059	N	GLY	2848	41.094	21.149	26.517	1.00	69.83
ATOM	19060	CA	GLY	2848	41.502	22.074	27.351	1.00	70.14
ATOM	19061	C	GLY	2848	41.198	23.478	26.601	1.00	70.50
ATOM	19062	C	GLY	2848	41.086	24.078	27.217	1.00	70.31
ATOM	19063	N	GLY	2849	41.363	23.607	28.280	1.00	71.04
ATOM	19064	CA	GLY	2849	41.385	24.391	24.459	1.00	71.60
ATOM	19065	C	GLY	2849	41.700	24.997	23.051	1.00	71.16
ATOM	19066	C	GLY	2849	41.776	23.118	21.589	1.00	72.14
ATOM	19067	N	TYR	2850	41.356	15.300	21.260	1.00	71.95
ATOM	19068	CA	TYR	2850	41.370	25.000	21.601	1.00	73.63
ATOM	19069	CB	TYR	2850	41.079	16.111	21.937	1.00	71.10
ATOM	19070	CG	TYR	2850	41.257	15.000	20.969	1.00	74.01
ATOM	19071	CD1	TYR	2850	40.053	15.000	21.001	1.00	74.38
ATOM	19072	CD2	TYR	2850	39.050	15.000	20.996	1.00	74.49
ATOM	19073	CD3	TYR	2850	40.811	14.001	21.887	1.00	74.01
ATOM	19074	CE2	TYR	2850	39.120	14.000	21.871	1.00	74.41
ATOM	19075	C	TYR	2850	39.041	14.000	20.869	1.00	74.86
ATOM	19076	CH	TYR	2850	37.015	14.118	20.829	1.00	75.33
ATOM	19077	C	TYR	2850	41.007	25.802	20.900	1.00	74.10
ATOM	19078	O	TYR	2850	41.156	27.000	20.847	1.00	74.16
ATOM	19079	N	LEU	2851	41.847	14.000	30.891	1.00	74.74
ATOM	19080	CA	LEU	2851	41.069	15.100	30.801	1.00	75.23
ATOM	19081	C	LEU	2851	40.166	14.100	31.719	1.00	75.49
ATOM	19082	CG	LEU	2851	41.704	14.000	31.163	1.00	75.61
ATOM	19083	CD	LEU	2851	41.199	13.100	31.939	1.00	75.73
ATOM	19084	C	LEU	2851	41.075	12.000	31.429	1.00	75.24
ATOM	19085	CE	LEU	2851	40.477	12.000	31.117	1.00	74.76
ATOM	19086	C	LEU	2851	41.845	11.000	29.358	1.00	75.66
ATOM	19087	O	LEU	2851	41.572	14.000	28.114	1.00	76.01
ATOM	19088	N	VAL	2852	41.357	16.000	26.857	1.00	75.85
ATOM	19089	CA	VAL	2852	41.062	16.000	27.489	1.00	76.08
ATOM	19090	CB	VAL	2852	41.135	27.141	27.039	1.00	75.99
ATOM	19091	CG1	VAL	2852	41.912	27.141	25.568	1.00	75.65
ATOM	19092	CG2	VAL	2852	41.417	18.143	23.371	1.00	75.82
ATOM	19093	C	VAL	2852	50.214	15.174	27.346	1.00	76.39
ATOM	19094	O	VAL	2852	51.395	15.144	27.391	1.00	76.31
ATOM	19095	N	GLN	2853	41.930	23.000	27.171	1.00	76.70
ATOM	19096	CA	GLN	2853	50.971	22.027	27.016	1.00	77.12
ATOM	19097	CB	GLN	2853	50.160	11.000	26.313	1.00	77.23
ATOM	19098	CG	GLN	2853	50.094	10.000	26.347	1.00	76.94
ATOM	19099	CD	GLN	2853	48.944	21.000	26.021	1.00	76.79
ATOM	19100	CE1	GLN	2853	47.805	21.000	26.319	1.00	76.67
ATOM	19101	NE2	GLN	2853	49.210	21.000	30.358	1.00	77.11
ATOM	19102	C	GLN	2853	51.813	21.001	25.771	1.00	77.33
ATOM	19103	O	GLN	2853	51.469	20.000	24.853	1.00	77.15
ATOM	19104	N	ASN	2854	51.027	21.001	25.751	1.00	77.75
ATOM	19105	CA	ASN	2854	51.911	21.001	24.821	1.00	78.29
ATOM	19106	C	ASN	2854	51.054	21.003	25.024	1.00	78.76
ATOM	19107	O	ASN	2854	51.190	21.001	24.100	1.00	78.78
ATOM	19108	N	ARG	2855	51.348	21.744	25.176	1.00	77.62
ATOM	19109	CA	ARG	2855	51.384	24.321	25.309	1.00	78.07
ATOM	19110	CB	ARG	2855	51.271	25.182	27.954	1.00	78.32
ATOM	19111	CG	ARG	2855	51.397	26.171	27.532	1.00	78.76
ATOM	19112	CH	ARG	2855	51.115	27.400	26.811	1.00	78.00
ATOM	19113	NE	ARG	2855	51.234	26.514	28.114	1.00	78.14
ATOM	19114	C	ARG	2855	51.727	29.433	25.507	1.00	79.08
ATOM	19115	NH1	ARG	2855	51.908	29.404	29.269	1.00	79.86
ATOM	19116	NH2	ARG	2855	51.906	30.393	26.473	1.00	79.79
ATOM	19117	O	ARG	2855	51.534	28.000	27.111	1.00	78.88
ATOM	19118	C	ARG	2855	51.275	31.174	27.187	1.00	78.88
ATOM	19119	N	GLY	2856	51.822	24.463	27.179	1.00	78.53
ATOM	19120	CA	GLY	2856	51.895	22.492	27.619	1.00	78.62
ATOM	19121	C	GLY	2856	60.118	21.456	26.557	1.00	78.79
ATOM	19122	O	GLY	2856	51.439	21.382	25.507	1.00	77.69
ATOM	19123	N	ASP	2857	61.156	20.659	26.867	1.00	77.46
ATOM	19124	CA	ASP	2857	61.515	19.614	25.861	1.00	77.70

ATOM	19125	CP	ASP	2857	63.977	19.446	25.875	1.00	76.96
ATOM	19126	CG	ASP	2857	63.401	20.634	25.273	1.00	77.36
ATOM	19127	OH1	ASP	2857	63.527	20.962	24.999	1.00	77.51
ATOM	19128	OH2	ASP	2857	64.644	21.235	25.971	1.00	77.38
ATOM	19129	C	ASP	2857	60.892	18.281	26.177	1.00	75.97
ATOM	19130	O	ASP	2857	60.891	17.666	25.280	1.00	76.56
ATOM	19131	N	GIU	2858	60.896	17.301	27.450	1.00	74.35
ATOM	19132	CA	GIU	2858	60.888	16.644	27.863	1.00	73.64
ATOM	19133	CF	GIU	2858	60.868	16.484	29.383	1.00	74.08
ATOM	19134	CC	GIU	2858	59.833	15.184	19.899	1.00	74.86
ATOM	19135	CD	GIU	2858	59.856	15.020	31.408	1.00	75.46
ATOM	19136	OE1	GIU	2858	60.886	15.034	31.641	1.00	75.97
ATOM	19137	OE2	GIU	2858	58.898	14.848	32.061	1.00	75.55
ATOM	19138	C	GIU	2858	58.881	16.896	17.416	1.00	72.68
ATOM	19139	O	GIU	2858	58.881	15.567	17.956	1.00	72.94
ATOM	19140	N	ALA	2859	58.151	17.751	17.441	1.00	71.17
ATOM	19141	CA	ALA	2859	58.774	17.648	17.836	1.00	69.66
ATOM	19142	CF	ALA	2859	58.891	18.801	17.888	1.00	69.37
ATOM	19143	C	ALA	2859	58.882	18.882	25.534	1.00	68.43
ATOM	19144	O	ALA	2859	58.896	17.866	14.864	1.00	68.14
ATOM	19145	N	GLY	2860	58.861	18.883	15.834	1.00	67.64
ATOM	19146	CA	GLY	2860	58.863	19.071	15.895	1.00	65.35
ATOM	19147	C	GLY	2860	58.886	17.829	22.913	1.00	64.41
ATOM	19148	O	GLY	2860	58.881	17.834	23.348	1.00	64.15
ATOM	19149	N	A.P	2861	58.881	18.887	23.160	1.00	63.48
ATOM	19150	C	A.P	2861	58.881	15.886	22.463	1.00	62.53
ATOM	19151	CF	A.P	2861	60.888	15.881	22.831	1.00	62.67
ATOM	19152	CG	A.P	2861	61.881	16.888	22.889	1.00	62.31
ATOM	19153	OH1	ASP	2861	61.881	16.888	22.831	1.00	62.35
ATOM	19154	OH2	ASP	2861	60.887	16.888	22.887	1.00	62.46
ATOM	19155	O	ASP	2861	58.888	14.881	22.816	1.00	61.69
ATOM	19156	O	ASP	2861	58.883	13.886	22.843	1.00	61.58
ATOM	19157	N	GLN	2862	58.881	14.883	22.813	1.00	60.47
ATOM	19158	CA	GLN	2862	58.881	14.883	24.817	1.00	59.84
ATOM	19159	CF	GLN	2862	58.883	14.883	25.820	1.00	59.54
ATOM	19160	CC	GLN	2862	58.881	13.886	26.850	1.00	59.67
ATOM	19161	CD	GLN	2862	58.881	12.883	26.846	1.00	59.47
ATOM	19162	OE1	GLN	2862	58.881	11.883	26.848	1.00	60.86
ATOM	19163	NE2	GLN	2862	58.881	11.886	25.860	1.00	59.63
ATOM	19164	C	GLN	2862	58.881	14.884	23.827	1.00	58.25
ATOM	19165	O	GLN	2862	58.884	13.881	23.887	1.00	58.14
ATOM	19166	N	LEU	2863	58.881	15.883	22.884	1.00	57.96
ATOM	19167	CA	LEU	2863	58.881	15.883	23.881	1.00	56.74
ATOM	19168	CB	LEU	2863	58.886	17.881	22.844	1.00	57.27
ATOM	19169	CG	LEU	2863	58.884	17.884	23.811	1.00	57.78
ATOM	19170	CD1	LEU	2863	58.886	19.885	23.873	1.00	58.08
ATOM	19171	CD2	LEU	2863	58.888	17.887	23.897	1.00	57.79
ATOM	19172	C	LEU	2863	58.888	15.883	20.880	1.00	56.01
ATOM	19173	O	LEU	2863	58.883	14.884	19.881	1.00	56.51
ATOM	19174	N	LEU	2864	55.280	15.883	20.888	1.00	54.58
ATOM	19175	CA	LEU	2864	55.700	14.882	18.873	1.00	53.21
ATOM	19176	CB	LEU	2864	57.106	15.887	18.896	1.00	53.69
ATOM	19177	CG	LEU	2864	57.583	15.887	17.885	1.00	54.16
ATOM	19178	CD1	LEU	2864	58.883	16.882	17.887	1.00	54.57
ATOM	19179	CD2	LEU	2864	57.911	14.953	16.859	1.00	53.90
ATOM	19180	C	LEU	2864	55.707	13.885	18.879	1.00	51.65
ATOM	19181	O	LEU	2864	55.486	12.887	17.887	1.00	50.82
ATOM	19182	N	SEP	2865	55.954	11.881	20.883	1.00	49.64
ATOM	19183	CA	SEP	2865	55.975	11.882	20.889	1.00	47.66
ATOM	19184	CB	SEP	2865	56.532	10.954	21.881	1.00	46.62
ATOM	19185	CG	SEP	2865	56.533	9.548	21.849	1.00	44.01
ATOM	19186	C	SEP	2865	54.561	10.774	20.882	1.00	45.80
ATOM	19187	O	SEP	2865	54.316	9.778	19.867	1.00	44.53
ATOM	19188	N	ASP	2866	53.659	11.417	23.880	1.00	44.41
ATOM	19189	CA	ASP	2866	53.659	10.976	23.845	1.00	41.88
ATOM	19190	CF	ASP	2866	51.324	11.732	23.881	1.00	45.18
ATOM	19191	CG	ASP	2866	51.723	11.514	23.880	1.00	43.83
ATOM	19192	OH1	ASP	2866	51.983	10.332	23.462	1.00	41.89
ATOM	19193	OH2	ASP	2866	51.713	12.439	23.883	1.00	46.11
ATOM	19194	O	ASP	2866	51.687	11.180	19.273	1.00	44.84
ATOM	19195	O	ASP	2866	50.975	10.329	18.694	1.00	45.01
ATOM	19196	N	ALA	2867	52.043	12.310	18.696	1.00	43.65
ATOM	19197	CA	ALA	2867	51.613	12.610	17.267	1.00	41.30
ATOM	19198	CB	ALA	2867	52.178	13.952	18.820	1.00	40.39
ATOM	19199	C	ALA	2867	52.077	11.498	16.328	1.00	40.67
ATOM	19200	O	ALA	2867	51.825	11.051	18.481	1.00	38.64
ATOM	19201	N	SEP	2868	53.418	11.052	18.566	1.00	39.59

ATOM	19202	CA	LEU	2468	53.862	9.982	15.674	1.00	29.13
ATOM	19203	CB	LEU	2468	55.375	9.852	15.881	1.00	29.80
ATOM	19204	CG	LEU	2468	56.253	10.908	15.223	1.00	39.60
ATOM	19205	CD1	LEU	2468	57.701	10.724	15.682	1.00	40.79
ATOM	19206	CD2	LEU	2468	56.167	10.790	13.769	1.00	45.12
ATOM	19207	C	LEU	2468	53.189	8.655	16.003	1.00	38.24
ATOM	19208	O	LEU	2468	52.941	7.811	15.124	1.00	37.72
ATOM	19209	N	ALA	2469	52.853	8.450	17.255	1.00	47.58
ATOM	19210	CA	ALA	2469	52.147	7.246	17.713	1.00	38.98
ATOM	19211	CB	ALA	2469	52.146	7.206	19.245	1.00	38.72
ATOM	19212	C	ALA	2469	50.742	7.165	17.157	1.00	38.13
ATOM	19213	O	ALA	2469	50.346	6.109	16.699	1.00	37.67
ATOM	19214	N	LEU	2470	50.070	8.287	17.195	1.00	37.67
ATOM	19215	CA	LEU	2470	48.735	3.349	16.664	1.00	37.01
ATOM	19216	CB	LEU	2470	48.091	3.719	16.990	1.00	37.82
ATOM	19217	CG	LEU	2470	47.975	10.070	18.471	1.00	38.77
ATOM	19218	CD1	LEU	2470	47.117	11.136	18.606	1.00	39.45
ATOM	19219	CD2	LEU	2470	46.842	3.171	19.047	1.00	37.97
ATOM	19220	C	LEU	2470	48.773	3.099	15.180	1.00	37.14
ATOM	19221	O	LEU	2470	47.836	7.311	14.635	1.00	37.14
ATOM	19222	N	GLU	2471	48.642	3.651	14.468	1.00	37.14
ATOM	19223	CA	GLU	2471	47.817	3.487	13.643	1.00	37.14
ATOM	19224	CB	GLU	2471	50.872	3.158	12.501	1.00	37.14
ATOM	19225	CG	GLU	2471	51.193	3.165	11.011	1.00	37.14
ATOM	19226	CD	GLU	2471	52.335	3.954	10.518	1.00	37.14
ATOM	19227	O	GLU	2471	50.472	3.806	11.085	1.00	37.14
ATOM	19228	OE1	GLU	2471	52.115	13.146	7.547	1.00	37.14
ATOM	19229	OE2	GLU	2471	50.041	2.015	10.215	1.00	37.14
ATOM	19230	C	GLU	2471	49.448	5.360	11.811	1.00	37.14
ATOM	19231	N	ALA	2472	50.845	5.191	13.451	1.00	37.14
ATOM	19232	CA	ALA	2472	51.146	4.568	13.221	1.00	37.14
ATOM	19233	CB	ALA	2472	52.116	4.588	14.074	1.00	37.14
ATOM	19234	C	ALA	2472	50.710	4.095	13.544	1.00	37.14
ATOM	19235	O	ALA	2472	49.319	3.070	12.965	1.00	37.14
ATOM	19236	N	ALA	2473	49.114	4.161	14.468	1.00	37.14
ATOM	19237	CA	ALA	2473	48.006	3.812	14.658	1.00	37.14
ATOM	19238	CB	ALA	2473	47.118	4.449	16.189	1.00	37.14
ATOM	19239	C	ALA	2473	47.010	3.875	13.818	1.00	37.14
ATOM	19240	O	ALA	2473	46.178	3.835	13.782	1.00	37.14
ATOM	19241	N	GLY	2474	47.014	4.011	12.939	1.00	37.14
ATOM	19242	CA	GLY	2474	46.009	3.883	11.674	1.00	37.14
ATOM	19243	C	GLY	2474	45.146	6.115	11.685	1.00	37.14
ATOM	19244	O	GLY	2474	44.619	6.428	10.736	1.00	37.14
ATOM	19245	N	ALA	2475	45.671	7.175	12.583	1.00	37.14
ATOM	19246	CA	ALA	2475	45.145	8.502	12.481	1.00	37.14
ATOM	19247	CB	ALA	2475	45.146	3.363	13.640	1.00	37.14
ATOM	19248	C	ALA	2475	45.442	3.114	11.147	1.00	37.14
ATOM	19249	O	ALA	2475	46.644	3.176	10.768	1.00	37.14
ATOM	19250	N	GLN	2476	44.446	3.479	10.436	1.00	37.14
ATOM	19251	CA	GLN	2476	44.444	13.474	3.148	1.00	37.14
ATOM	19252	CB	GLN	2476	43.444	9.895	8.141	1.00	37.14
ATOM	19253	CG	GLN	2476	43.442	3.393	7.917	1.00	37.14
ATOM	19254	CD	GLN	2476	42.444	7.487	6.922	1.00	37.14
ATOM	19255	OE1	GLN	2476	42.445	8.338	5.920	1.00	37.14
ATOM	19256	OE2	GLN	2476	42.449	7.346	2.417	1.00	37.14
ATOM	19257	C	GLN	2476	44.116	11.841	9.276	1.00	37.14
ATOM	19258	O	GLN	2476	44.471	12.556	8.176	1.00	37.14
ATOM	19259	N	LEU	2477	44.460	12.421	10.530	1.00	37.14
ATOM	19260	CA	LEU	2477	44.447	13.756	10.734	1.00	37.14
ATOM	19261	CB	LEU	2477	43.454	14.429	10.547	1.00	37.14
ATOM	19262	CG	LEU	2477	42.460	15.163	9.387	1.00	37.14
ATOM	19263	CD	LEU	2477	41.465	15.384	9.178	1.00	37.14
ATOM	19264	C	LEU	2477	43.441	16.413	7.131	1.00	37.14
ATOM	19265	O	LEU	2477	44.433	13.456	12.314	1.00	37.14
ATOM	19266	N	LEU	2477	44.450	13.117	14.090	1.00	37.14
ATOM	19267	N	LEU	2478	45.465	15.178	12.517	1.00	37.14
ATOM	19268	CA	LEU	2478	45.475	15.155	13.873	1.00	37.14
ATOM	19269	CB	LEU	2478	47.479	15.144	14.057	1.00	37.14
ATOM	19270	CG	LEU	2478	47.444	15.767	15.418	1.00	37.14
ATOM	19271	CD	LEU	2478	47.432	14.490	16.517	1.00	37.14
ATOM	19272	C	LEU	2478	49.458	15.411	15.411	1.00	37.14
ATOM	19273	O	LEU	2478	45.435	17.114	14.151	1.00	37.14
ATOM	19274	N	LEU	2478	49.469	17.461	13.257	1.00	37.14
ATOM	19275	N	VAL	2479	45.167	17.309	15.393	1.00	41.38
ATOM	19276	CA	VAL	2479	44.630	18.678	15.793	1.00	41.38
ATOM	19277	CB	VAL	2479	43.647	18.778	14.231	1.00	41.38
ATOM	19278	C	VAL	2479	43.643	17.176	14.177	1.00	41.38

ATOM	19279	CG2	VAL	2879	42.433	18.384	15.086	1.00	41.99
ATOM	19280	C	VAL	2879	45.760	19.133	16.949	1.00	44.01
ATOM	19281	O	VAL	2879	48.791	18.468	17.983	1.00	43.86
ATOM	19282	N	LEU	2880	46.352	20.276	16.766	1.00	45.45
ATOM	19283	CA	LEU	2880	47.111	20.851	17.781	1.00	47.07
ATOM	19284	CB	LEU	2880	48.164	21.261	17.170	1.00	47.90
ATOM	19285	CG	LEU	2880	49.446	20.118	16.632	1.00	47.79
ATOM	19286	CD1	LEU	2880	50.688	20.728	15.975	1.00	48.71
ATOM	19287	CD2	LEU	2880	49.822	19.201	17.770	1.00	47.63
ATOM	19288	C	LEU	2880	48.529	22.073	18.381	1.00	48.19
ATOM	19289	O	LEU	2880	46.113	22.021	17.667	1.00	46.54
ATOM	19290	N	GLU	2881	46.276	22.047	19.692	1.00	49.16
ATOM	19291	CA	GLU	2881	45.688	22.154	20.377	1.00	51.17
ATOM	19292	CB	GLU	2881	44.478	22.631	21.186	1.00	51.11
ATOM	19293	CG	GLU	2881	43.547	23.724	21.684	1.00	51.63
ATOM	19294	CD	GLU	2881	42.497	23.196	22.621	1.00	51.94
ATOM	19295	DE1	GLU	2881	41.810	22.220	22.271	1.00	51.97
ATOM	19296	DE2	GLU	2881	42.658	23.756	23.740	1.00	52.44
ATOM	19297	H	GLU	2881	46.619	23.899	22.704	1.00	51.45
ATOM	19298	O	GLU	2881	47.177	22.700	22.109	1.00	51.90
ATOM	19299	N	CYS	2882	46.818	21.186	21.068	1.00	53.90
ATOM	19300	CA	CYS	2882	47.761	22.024	21.802	1.00	55.11
ATOM	19301	CB	CYS	2882	47.608	22.798	22.139	1.00	55.59
ATOM	19302	CG	CYS	2882	48.786	22.473	22.945	1.00	57.16
ATOM	19303	H	CYS	2882	49.654	23.381	22.695	1.00	55.15
ATOM	19304	O	CYS	2882	49.091	24.720	23.119	1.00	55.61
ATOM	19305	N	VAL	2883	49.254	23.550	21.158	1.00	55.88
ATOM	19306	CA	VAL	2883	51.712	23.666	21.764	1.00	56.34
ATOM	19307	CB	VAL	2883	51.754	23.866	20.641	1.00	56.77
ATOM	19308	CD1	VAL	2883	50.703	23.761	19.150	1.00	57.14
ATOM	19309	CD2	VAL	2883	50.764	24.019	20.664	1.00	56.92
ATOM	19310	C	VAL	2883	52.291	23.849	20.568	1.00	56.70
ATOM	19311	O	VAL	2883	51.887	26.489	19.502	1.00	56.49
ATOM	19312	N	PRO	2884	53.478	26.223	21.167	1.00	56.87
ATOM	19313	CA	PRO	2884	54.601	25.481	21.742	1.00	56.83
ATOM	19314	CB	PRO	2884	54.487	25.663	20.545	1.00	56.16
ATOM	19315	CG	PRO	2884	56.663	26.163	21.419	1.00	56.72
ATOM	19316	CD	PRO	2884	56.760	26.481	22.019	1.00	57.13
ATOM	19317	C	PRO	2884	54.747	26.713	19.705	1.00	57.27
ATOM	19318	O	PRO	2884	54.788	25.162	18.766	1.00	57.23
ATOM	19319	N	VAL	2885	54.683	27.711	18.150	1.00	56.98
ATOM	19320	CA	VAL	2885	54.908	27.964	16.818	1.00	57.68
ATOM	19321	CB	VAL	2885	55.176	28.918	16.119	1.00	57.41
ATOM	19322	CD1	VAL	2885	55.141	28.747	14.620	1.00	57.11
ATOM	19323	CD2	VAL	2885	54.156	29.942	16.578	1.00	57.26
ATOM	19324	C	VAL	2885	56.073	28.682	16.719	1.00	58.32
ATOM	19325	O	VAL	2885	56.046	25.867	15.553	1.00	58.54
ATOM	19326	N	GLU	2886	57.100	28.721	17.358	1.00	58.72
ATOM	19327	CA	GLU	2886	58.300	25.806	17.194	1.00	58.51
ATOM	19328	CB	GLU	2886	59.097	25.133	18.341	1.00	59.10
ATOM	19329	CG	GLU	2886	59.379	27.632	18.763	1.00	59.54
ATOM	19330	CD	GLU	2886	59.503	28.543	17.586	1.00	59.84
ATOM	19331	DE1	GLU	2886	60.165	28.867	15.779	1.00	60.96
ATOM	19332	DE2	GLU	2886	58.111	29.483	17.175	1.00	59.22
ATOM	19333	C	GLU	2886	57.937	34.334	17.164	1.00	59.29
ATOM	19334	O	GLU	2886	58.373	33.659	16.287	1.00	57.63
ATOM	19335	N	LEU	2887	57.131	23.975	14.134	1.00	57.62
ATOM	19336	CA	LEU	2887	56.706	22.546	14.151	1.00	57.41
ATOM	19337	CB	LEU	2887	55.317	22.371	14.640	1.00	56.08
ATOM	19338	CG	LEU	2887	56.311	21.213	20.363	1.00	55.97
ATOM	19339	CD	LEU	2887	55.545	21.140	21.568	1.00	55.92
ATOM	19340	DE1	LEU	2887	56.075	19.875	18.676	1.00	55.54
ATOM	19341	O	LEU	2887	55.333	22.193	17.846	1.00	57.47
ATOM	19342	C	LEU	2887	55.914	21.086	16.719	1.00	57.75
ATOM	19343	N	ALA	2888	54.943	23.162	14.609	1.00	57.65
ATOM	19344	CA	ALA	2888	54.071	22.861	14.000	1.00	57.47
ATOM	19345	CB	ALA	2888	53.133	24.051	15.606	1.00	57.84
ATOM	19346	C	ALA	2888	54.859	22.604	14.119	1.00	57.89
ATOM	19347	O	ALA	2888	54.491	21.751	13.411	1.00	57.53
ATOM	19348	N	LYS	2889	55.944	23.352	14.375	1.00	57.62
ATOM	19349	CA	LYS	2889	56.730	23.211	12.367	1.00	57.71
ATOM	19350	CB	LYS	2889	57.952	24.205	12.909	1.00	58.61
ATOM	19351	CG	LYS	2889	57.518	25.662	12.963	1.00	60.67
ATOM	19352	CD	LYS	2889	58.694	26.590	13.363	1.00	62.37
ATOM	19353	DE	LYS	2889	58.243	28.043	13.347	1.00	62.84
ATOM	19354	NE	LYS	2889	59.353	28.979	13.329	1.00	62.23
ATOM	19355	O	LYS	2889	57.333	31.793	12.700	1.00	59.10

ATOM	19356	O	LYS	2889	57.302	21.180	11.696	1.00	57.17
ATOM	19357	N	ARG	2890	57.840	21.281	13.881	1.00	56.24
ATOM	19358	CA	ARG	2890	58.401	19.976	13.923	1.00	55.63
ATOM	19359	CB	ARG	2890	58.973	19.679	15.311	1.00	56.65
ATOM	19360	CG	ARG	2890	60.157	20.501	15.697	1.00	58.26
ATOM	19361	CD	ARG	2890	60.844	19.945	16.974	1.00	60.08
ATOM	19362	NE	ARG	2890	59.947	19.894	18.074	1.00	61.53
ATOM	19363	CZ	ARG	2890	60.160	19.744	19.274	1.00	62.29
ATOM	19364	NH1	ARG	2890	61.451	18.781	19.475	1.00	62.17
ATOM	19365	NH2	ARG	2890	59.381	19.349	20.746	1.00	61.05
ATOM	19366	C	ARG	2890	57.864	18.880	13.775	1.00	54.19
ATOM	19367	O	ARG	2890	57.862	18.182	12.714	1.00	53.84
ATOM	19368	N	ILE	2891	56.429	18.550	14.401	1.00	52.97
ATOM	19369	CA	ILE	2891	55.156	17.876	14.102	1.00	51.09
ATOM	19370	CB	ILE	2891	54.699	18.088	15.187	1.00	51.37
ATOM	19371	CG2	ILE	2891	52.870	17.095	14.777	1.00	50.95
ATOM	19372	CG1	ILE	2891	54.613	17.981	16.676	1.00	50.98
ATOM	19373	CD1	ILE	2891	57.898	18.287	17.876	1.00	50.46
ATOM	19374	C	ILE	2891	54.712	17.874	17.775	1.00	50.48
ATOM	19375	O	ILE	2891	54.871	16.839	17.108	1.00	50.46
ATOM	19376	N	THR	2892	54.758	18.009	14.816	1.00	49.45
ATOM	19377	CA	THR	2892	53.816	18.100	14.075	1.00	48.23
ATOM	19378	CB	THR	2892	51.857	20.773	14.877	1.00	48.80
ATOM	19379	CG1	THR	2892	51.862	21.277	17.873	1.00	48.13
ATOM	19380	CG2	THR	2892	51.873	20.843	18.149	1.00	48.85
ATOM	19381	C	THR	2892	54.440	18.649	15.908	1.00	49.30
ATOM	19382	O	THR	2892	54.180	18.005	16.965	1.00	48.83
ATOM	19383	N	GLU	2893	56.741	18.878	14.976	1.00	49.78
ATOM	19384	CA	GLU	2893	55.107	18.773	14.068	1.00	50.31
ATOM	19385	CB	GLU	2893	53.745	19.178	15.045	1.00	51.93
ATOM	19386	CG	GLU	2893	51.749	20.609	16.400	1.00	54.14
ATOM	19387	CD	GLU	2893	56.755	21.412	18.163	1.00	55.53
ATOM	19388	OE1	GLU	2893	60.736	21.696	19.776	1.00	55.46
ATOM	19389	OE2	GLU	2893	58.777	21.777	19.972	1.00	56.23
ATOM	19390	C	GLU	2893	53.723	18.773	15.071	1.00	49.47
ATOM	19391	O	GLU	2893	57.653	18.243	16.178	1.00	49.41
ATOM	19392	N	ALA	2894	53.774	18.480	14.849	1.00	48.11
ATOM	19393	CA	ALA	2894	51.718	18.171	13.001	1.00	46.74
ATOM	19394	CB	ALA	2894	50.718	18.079	14.071	1.00	46.75
ATOM	19395	C	ALA	2894	56.338	14.115	14.874	1.00	45.44
ATOM	19396	O	ALA	2894	54.721	12.879	13.779	1.00	45.28
ATOM	19397	N	LEU	2895	55.100	14.689	10.790	1.00	44.09
ATOM	19398	CA	LEU	2895	54.197	13.740	10.112	1.00	42.66
ATOM	19399	CB	LEU	2895	52.845	14.067	10.982	1.00	43.61
ATOM	19400	CG	LEU	2895	52.966	13.940	12.470	1.00	43.86
ATOM	19401	CD1	LEU	2895	51.651	14.873	13.775	1.00	44.39
ATOM	19402	CD2	LEU	2895	50.750	12.770	12.774	1.00	45.06
ATOM	19403	C	LEU	2895	53.777	13.874	8.681	1.00	41.50
ATOM	19404	O	LEU	2895	53.487	14.972	8.967	1.00	41.74
ATOM	19405	N	ALA	2896	53.484	12.776	8.909	1.00	39.31
ATOM	19406	CA	ALA	2896	53.720	12.769	6.967	1.00	37.81
ATOM	19407	CB	ALA	2896	54.330	11.770	6.003	1.00	37.19
ATOM	19408	C	ALA	2896	51.458	11.776	6.768	1.00	37.41
ATOM	19409	O	ALA	2896	51.744	13.779	9.476	1.00	38.35
ATOM	19410	N	ILE	2897	50.776	12.874	7.339	1.00	37.72
ATOM	19411	CA	ILE	2897	49.459	13.272	7.770	1.00	37.82
ATOM	19412	CB	ILE	2897	48.789	12.474	8.772	1.00	38.19
ATOM	19413	CG2	ILE	2897	48.762	10.968	8.772	1.00	35.52
ATOM	19414	CG1	ILE	2897	49.237	12.662	9.447	1.00	36.77
ATOM	19415	CD1	ILE	2897	49.490	11.877	11.763	1.00	38.83
ATOM	19416	C	ILE	2897	49.202	14.776	7.925	1.00	38.40
ATOM	19417	O	ILE	2897	49.987	15.774	8.785	1.00	37.90
ATOM	19418	N	PRO	2898	46.180	15.334	7.347	1.00	36.51
ATOM	19419	CA	PRO	2898	45.117	14.776	8.337	1.00	36.81
ATOM	19420	CB	PRO	2898	47.753	16.771	7.167	1.00	37.19
ATOM	19421	CG	PRO	2898	46.779	17.069	8.329	1.00	39.81
ATOM	19422	CD	PRO	2898	46.601	15.773	8.601	1.00	40.01
ATOM	19423	C	PRO	2898	47.730	17.067	8.466	1.00	40.59
ATOM	19424	O	PRO	2898	46.798	16.771	8.665	1.00	40.58
ATOM	19425	N	VAL	2899	48.775	18.178	10.341	1.00	40.49
ATOM	19426	CA	VAL	2899	48.257	18.379	10.732	1.00	40.89
ATOM	19427	CB	VAL	2899	49.681	19.779	11.184	1.00	41.08
ATOM	19428	CG1	VAL	2899	49.487	19.779	12.452	1.00	40.58
ATOM	19429	CG2	VAL	2899	50.447	17.777	11.334	1.00	41.04
ATOM	19430	C	VAL	2899	47.484	18.682	10.742	1.00	41.04
ATOM	19431	O	VAL	2899	48.993	20.774	10.594	1.00	40.69
ATOM	19432	N	LEU	2899	46.774	19.779	11.174	1.00	41.89

ATCM	19433	CA	ILE	2900	45.409	20.977	11.588	1.00	40.80
ATCM	19434	CB	ILE	2900	43.919	20.689	11.510	1.00	40.42
ATCM	19435	CG2	ILE	2900	43.046	21.318	11.739	1.00	40.14
ATCM	19436	CG1	ILE	2900	43.677	19.954	10.146	1.00	40.12
ATCM	19437	CD1	ILE	2900	42.117	19.101	10.000	1.00	38.74
ATCM	19438	C	ILE	2900	45.700	11.539	12.943	1.00	40.37
ATCM	19439	O	ILE	2900	45.760	10.302	13.956	1.00	40.36
ATCM	19440	N	SLY	2901	45.890	12.913	12.964	1.00	40.33
ATCM	19441	CA	GLY	2901	46.189	15.576	14.219	1.00	39.83
ATCM	19442	C	GLY	2901	45.317	14.771	14.534	1.00	39.83
ATCM	19443	O	GLY	2901	44.733	15.460	13.644	1.00	39.23
ATCM	19444	N	ILE	2902	45.190	15.071	15.822	1.00	40.24
ATCM	19445	CA	ILE	2902	44.414	16.203	16.287	1.00	41.59
ATCM	19446	CB	ILE	2902	43.043	15.758	16.859	1.00	41.56
ATCM	19447	CG2	ILE	2902	43.130	14.634	15.872	1.00	39.46
ATCM	19448	CG1	ILE	2902	42.333	16.957	15.496	1.00	42.13
ATCM	19449	CD1	ILE	2902	40.889	16.699	15.857	1.00	42.11
ATCM	19450	C	ILE	2902	43.111	16.943	15.164	1.00	42.10
ATCM	19451	O	ILE	2902	43.401	16.395	16.468	1.00	41.72
ATCM	19452	N	GLA	2903	43.719	18.099	15.037	1.00	44
ATCM	19453	CA	GLA	2903	46.117	18.345	15.971	1.00	45.16
ATCM	19454	C	GLA	2903	43.337	18.134	18.168	1.00	46.11
ATCM	19455	O	GLA	2903	43.711	18.318	18.136	1.00	46.13
ATCM	19456	N	ALA	2904	43.401	15.711	15.991	1.00	46.61
ATCM	19457	CA	ALA	2904	43.711	15.192	16.387	1.00	46.63
ATCM	19458	CB	ALA	2904	43.134	15.194	16.771	1.00	46.63
ATCM	19459	C	ALA	2904	50.333	15.674	15.749	1.00	46.66
ATCM	19460	O	ALA	2904	51.311	15.174	15.461	1.00	46.63
ATCM	19461	N	GLA	2905	50.311	18.313	15.100	1.00	47.11
ATCM	19462	CA	GLY	2905	50.733	19.331	18.004	1.00	47.43
ATCM	19463	C	GLY	2905	50.190	18.405	15.034	1.00	48.00
ATCM	19464	O	GLY	2905	49.474	18.427	15.517	1.00	48.13
ATCM	19465	N	ASN	2906	50.333	19.128	15.591	1.00	47.43
ATCM	19466	CA	ASN	2906	50.439	18.113	15.221	1.00	47.13
ATCM	19467	CB	ASN	2906	50.411	19.488	15.711	1.00	46.83
ATCM	19468	CG	ASN	2906	51.711	15.180	15.348	1.00	46.83
ATCM	19469	CD1	ASN	2906	51.333	15.008	15.614	1.00	47.13
ATCM	19470	ND2	ASN	2906	52.333	16.844	16.039	1.00	45.83
ATCM	19471	C	ASN	2906	51.334	18.190	15.585	1.00	47.11
ATCM	19472	O	ASN	2906	51.133	18.032	15.366	1.00	46.83
ATCM	19473	N	VAL	2907	52.111	15.131	15.418	1.00	47.83
ATCM	19474	CA	VAL	2907	52.111	16.128	15.941	1.00	47.83
ATCM	19475	CB	VAL	2907	54.134	16.136	16.980	1.00	48.03
ATCM	19476	CG1	VAL	2907	53.033	15.336	16.394	1.00	49.33
ATCM	19477	CG2	VAL	2907	54.801	27.584	15.404	1.00	48.66
ATCM	19478	C	VAL	2907	52.411	25.104	15.645	1.00	47.43
ATCM	19479	O	VAL	2907	52.811	24.413	15.816	1.00	46.63
ATCM	19480	N	THR	2908	51.139	24.365	15.316	1.00	46.83
ATCM	19481	CA	THR	2908	50.339	23.737	16.134	1.00	46.83
ATCM	19482	CB	THR	2908	49.397	23.644	15.145	1.00	46.83
ATCM	19483	CG1	THR	2908	48.308	24.845	15.095	1.00	47.83
ATCM	19484	CG2	THR	2908	49.331	23.360	15.510	1.00	45.13
ATCM	19485	C	THR	2908	49.333	23.648	15.711	1.00	47.83
ATCM	19486	O	THR	2908	49.331	24.049	15.013	1.00	47.83
ATCM	19487	N	ASP	2909	49.339	22.436	16.316	1.00	46.83
ATCM	19488	CA	ASP	2909	49.347	22.204	16.989	1.00	47.13
ATCM	19489	CB	ASP	2909	48.334	20.166	16.718	1.00	47.83
ATCM	19490	CG	ASP	2909	50.311	20.097	16.906	1.00	48.83
ATCM	19491	CD1	ASP	2909	51.141	20.399	16.127	1.00	49.03
ATCM	19492	GL1	ASP	2909	50.331	15.181	15.836	1.00	47.83
ATCM	19493	C	ASP	2909	47.336	22.331	16.832	1.00	47.13
ATCM	19494	O	ASP	2909	45.111	20.111	15.717	1.00	46.83
ATCM	19495	N	SLY	2910	46.333	23.337	15.956	1.00	46.83
ATCM	19496	CA	GLY	2910	45.331	23.637	15.814	1.00	46.83
ATCM	19497	C	GLY	2910	45.331	24.437	15.163	1.00	45.33
ATCM	19498	O	GLY	2910	44.111	24.437	15.111	1.00	44.83
ATCM	19499	N	GLN	2911	46.134	25.037	15.157	1.00	45.33
ATCM	19500	CA	GLN	2911	43.112	25.833	16.192	1.00	46.33
ATCM	19501	CB	GLN	2911	43.113	27.337	15.990	1.00	46.33
ATCM	19502	CG	GLN	2911	45.111	27.333	15.978	1.00	44.83
ATCM	19503	C	GLN	2911	46.110	27.643	15.167	1.00	44.03
ATCM	19504	CD1	GLN	2911	46.334	27.937	15.746	1.00	43.63
ATCM	19505	NF2	GLN	2911	47.305	27.193	15.043	1.00	44.13
ATCM	19506	C	GLN	2911	47.150	25.537	16.619	1.00	47.63
ATCM	19507	O	GLN	2911	41.480	25.111	15.771	1.00	46.83
ATCM	19508	N	ILE	2912	41.863	25.133	15.883	1.00	46.33
ATCM	19509	CA	ILE	2912	43.490	25.133	15.796	1.00	46.13

ATOM	19510	CB	ILE	2912	40.320	24.298	13.023	1.00	50.95
ATOM	19511	CG2	ILE	2912	41.195	24.257	14.270	1.00	51.75
ATOM	19512	CG1	ILE	2912	38.849	24.088	15.376	1.00	51.34
ATOM	19513	CD1	ILE	2912	38.484	27.841	15.645	1.00	52.84
ATOM	19514	C	ILE	2912	40.693	28.806	15.205	1.00	50.85
ATOM	19515	C	ILE	2912	40.870	27.122	14.065	1.00	51.15
ATOM	19516	N	LEU	2913	38.889	23.334	15.005	1.00	51.43
ATOM	19517	CA	LEU	2913	38.817	25.456	15.808	1.00	51.62
ATOM	19518	CB	LEU	2913	38.166	28.760	15.011	1.00	52.42
ATOM	19519	CG	LEU	2913	39.031	31.024	15.747	1.00	53.65
ATOM	19520	CD1	LEU	2913	39.735	32.140	15.739	1.00	57.91
ATOM	19521	CE2	LEU	2913	38.016	31.436	14.861	1.00	54.69
ATOM	19522	C	LEU	2913	36.964	28.177	14.141	1.00	50.62
ATOM	19523	C	LEU	2913	36.150	27.829	15.153	1.00	50.90
ATOM	19524	N	VAL	2914	36.627	25.853	15.889	1.00	49.32
ATOM	19525	CA	VAL	2914	35.174	28.778	15.827	1.00	47.68
ATOM	19526	CB	VAL	2914	35.175	28.968	15.455	1.00	48.66
ATOM	19527	CG1	VAL	2914	35.817	28.858	16.005	1.00	49.18
ATOM	19528	CG2	VAL	2914	35.108	27.880	16.050	1.00	47.75
ATOM	19529	C	VAL	2914	34.463	25.826	15.173	1.00	46.18
ATOM	19530	C	VAL	2914	34.731	24.892	15.803	1.00	45.66
ATOM	19531	N	MET	2915	35.488	25.810	14.196	1.00	47.97
ATOM	19532	CA	MET	2915	32.649	25.883	15.839	1.00	47.97
ATOM	19533	CB	MET	2915	31.501	28.873	15.166	1.00	46.84
ATOM	19534	CG	MET	2915	30.616	28.872	16.011	1.00	48.03
ATOM	19535	CD	MET	2915	28.998	28.898	15.140	1.00	45.08
ATOM	19536	CE	MET	2915	28.101	25.849	14.185	1.00	44.37
ATOM	19537	C	MET	2915	30.681	21.896	14.117	1.00	42.94
ATOM	19538	C	MET	2915	31.901	21.866	14.168	1.00	42.80
ATOM	19539	N	HIS	2916	31.773	21.856	16.028	1.00	42.84
ATOM	19540	CA	HIS	2916	31.118	21.841	15.847	1.00	43.58
ATOM	19541	CB	HIS	2916	30.819	21.831	16.079	1.00	43.48
ATOM	19542	CG	HIS	2916	29.806	25.886	15.080	1.00	41.65
ATOM	19543	CD	HIS	2916	29.448	27.890	15.055	1.00	41.66
ATOM	19544	CE1	HIS	2916	28.156	25.815	16.170	1.00	41.74
ATOM	19545	CE2	HIS	2916	27.448	25.888	15.897	1.00	41.12
ATOM	19546	NE2	HIS	2916	28.095	25.870	15.824	1.00	42.03
ATOM	19547	C	HIS	2916	32.197	22.885	15.424	1.00	45.12
ATOM	19548	O	HIS	2916	31.717	23.832	15.871	1.00	43.97
ATOM	19549	N	ASP	2917	33.485	21.814	15.853	1.00	46.12
ATOM	19550	CA	ASP	2917	34.492	23.861	15.839	1.00	47.60
ATOM	19551	CB	ASP	2917	35.762	23.896	16.225	1.00	48.54
ATOM	19552	CG	ASP	2917	35.463	25.845	16.099	1.00	49.88
ATOM	19553	CD1	ASP	2917	35.083	24.802	20.404	1.00	51.84
ATOM	19554	CD2	ASP	2917	35.658	21.801	20.150	1.00	51.51
ATOM	19555	C	ASP	2917	34.885	24.818	16.168	1.00	47.64
ATOM	19556	O	ASP	2917	35.581	25.885	16.817	1.00	49.11
ATOM	19557	N	ALA	2918	34.587	34.860	15.123	1.00	47.13
ATOM	19558	CA	ALA	2918	34.844	34.831	15.833	1.00	46.36
ATOM	19559	CB	ALA	2918	34.338	35.851	15.164	1.00	45.96
ATOM	19560	C	ALA	2918	33.965	35.836	15.465	1.00	46.80
ATOM	19561	O	ALA	2918	34.275	36.807	15.651	1.00	45.86
ATOM	19562	N	PRO	2919	32.780	35.896	14.163	1.00	45.95
ATOM	19563	CA	PRO	2919	32.762	36.899	14.194	1.00	46.11
ATOM	19564	CB	PRO	2919	30.192	36.817	14.174	1.00	45.16
ATOM	19565	CG	PRO	2919	30.156	35.814	14.157	1.00	46.04
ATOM	19566	CD1	PRO	2919	31.436	35.827	15.838	1.00	49.11
ATOM	19567	CD2	PRO	2919	30.214	35.864	15.119	1.00	46.14
ATOM	19568	CE1	PRO	2919	31.698	34.827	14.093	1.00	46.77
ATOM	19569	CE2	PRO	2919	30.440	33.857	15.183	1.00	46.47
ATOM	19570	CZ	PRO	2919	31.177	33.839	15.070	1.00	46.43
ATOM	19571	C	PRO	2919	31.150	33.856	15.751	1.00	45.17
ATOM	19572	O	PRO	2919	30.145	36.813	15.122	1.00	45.14
ATOM	19573	N	GLY	2920	31.332	33.894	14.151	1.00	45.81
ATOM	19574	CA	GLY	2920	31.142	33.812	17.089	1.00	46.47
ATOM	19575	C	GLY	2920	30.782	33.867	17.809	1.00	45.48
ATOM	19576	O	GLY	2920	30.207	33.865	18.330	1.00	45.65
ATOM	19577	N	ILE	2921	36.268	33.853	15.741	1.00	46.10
ATOM	19578	CA	ILE	2921	34.985	33.870	15.886	1.00	47.25
ATOM	19579	CB	ILE	2921	29.410	34.874	15.655	1.00	45.36
ATOM	19580	CG	ILE	2921	27.086	34.851	15.810	1.00	46.13
ATOM	19581	CD1	ILE	2921	28.410	35.801	16.140	1.00	46.06
ATOM	19582	CD2	ILE	2921	28.019	33.815	15.120	1.00	45.17
ATOM	19583	C	ILE	2921	29.010	36.810	15.801	1.00	48.33
ATOM	19584	O	ILE	2921	28.137	36.834	15.826	1.00	47.30
ATOM	19585	N	THR	2922	37.116	35.815	16.771	1.00	50.35
ATOM	19586	CA	THR	2922	36.316	35.820	15.694	1.00	50.99

ATOM	19587	CB	THR	2922	31.599	34.487	21.960	1.00	53.75
ATOM	19588	OG1	THR	2922	32.701	36.209	21.442	1.00	55.46
ATOM	19589	CG2	THR	2922	31.514	35.127	21.285	1.00	55.60
ATOM	19590	O	THR	2922	30.394	34.593	22.476	1.00	56.52
ATOM	19591	O	THR	2922	30.709	33.673	21.911	1.00	55.67
ATOM	19592	N	GLY	2923	30.602	35.483	22.772	1.00	58.60
ATOM	19593	CA	GLY	2923	30.768	37.657	24.621	1.00	61.60
ATOM	19594	O	GLY	2923	31.545	38.803	24.004	1.00	62.68
ATOM	19595	O	GLY	2923	30.961	38.199	23.394	1.00	64.36
ATOM	19596	N	GLY	2924	32.264	38.979	24.167	1.00	64.67
ATOM	19597	CA	GLY	2924	33.688	39.835	25.605	1.00	66.50
ATOM	19598	O	GLY	2924	35.161	39.619	25.880	1.00	67.68
ATOM	19599	C	GLY	2924	36.511	39.989	25.072	1.00	68.28
ATOM	19600	N	HIS	2925	35.461	39.018	25.026	1.00	68.21
ATOM	19601	CA	HIS	2925	36.339	38.748	25.410	1.00	68.98
ATOM	19602	CB	HIS	2925	36.902	38.331	26.904	1.00	71.40
ATOM	19603	CG	HIS	2925	36.512	38.976	27.930	1.00	71.99
ATOM	19604	CD2	HIS	2925	35.808	39.900	28.620	1.00	72.41
ATOM	19605	ND1	HIS	2925	35.173	40.951	29.607	1.00	72.65
ATOM	19606	CE1	HIS	2925	36.501	41.797	28.417	1.00	72.40
ATOM	19607	NE2	HIS	2925	35.381	41.190	29.650	1.00	72.60
ATOM	19608	C	HIS	2925	37.184	42.114	28.654	1.00	68.56
ATOM	19609	O	HIS	2925	37.741	43.114	28.294	1.00	68.44
ATOM	19610	N	ILE	2926	37.441	42.881	27.448	1.00	67.83
ATOM	19611	CA	ILE	2926	37.840	43.316	27.824	1.00	67.07
ATOM	19612	CB	ILE	2926	37.816	43.836	27.019	1.00	67.36
ATOM	19613	CG2	ILE	2926	36.350	43.011	26.841	1.00	67.70
ATOM	19614	CG1	ILE	2926	36.817	43.301	26.891	1.00	67.83
ATOM	19615	CD1	ILE	2926	38.882	43.836	29.132	1.00	67.17
ATOM	19616	C	ILE	2926	39.436	43.114	27.817	1.00	68.38
ATOM	19617	O	ILE	2926	40.136	43.884	27.460	1.00	68.76
ATOM	19618	N	PRO	2927	39.886	44.987	27.557	1.00	67.66
ATOM	19619	CD	PRO	2927	39.435	45.877	27.013	1.00	67.23
ATOM	19620	CA	PRO	2927	41.144	44.596	27.864	1.00	67.79
ATOM	19621	CB	PRO	2927	41.198	45.673	27.615	1.00	67.30
ATOM	19622	CG	PRO	2927	40.188	45.914	27.553	1.00	67.30
ATOM	19623	C	PRO	2927	42.229	45.791	27.814	1.00	68.22
ATOM	19624	O	PRO	2927	41.838	46.832	26.854	1.00	67.33
ATOM	19625	N	LYS	2928	43.869	46.710	27.306	1.00	67.95
ATOM	19626	CA	LYS	2928	44.861	47.810	27.492	1.00	68.10
ATOM	19627	CB	LYS	2928	45.862	48.960	27.182	1.00	67.96
ATOM	19628	CG	LYS	2928	45.843	49.993	27.332	1.00	68.57
ATOM	19629	CD	LYS	2928	44.846	49.965	28.408	1.00	68.11
ATOM	19630	CE	LYS	2928	45.029	51.861	28.468	1.00	67.21
ATOM	19631	NZ	LYS	2928	44.169	53.518	26.651	1.00	64.88
ATOM	19632	C	LYS	2928	44.803	52.067	26.091	1.00	62.38
ATOM	19633	O	LYS	2928	45.163	53.623	26.145	1.00	62.12
ATOM	19634	N	PRO	2929	44.837	53.836	26.043	1.00	61.72
ATOM	19635	CA	PRO	2929	44.136	53.943	26.850	1.00	59.91
ATOM	19636	CB	PRO	2929	44.095	53.560	26.348	1.00	59.84
ATOM	19637	CG	PRO	2929	43.832	53.936	26.154	1.00	60.10
ATOM	19638	CD1	PRO	2929	42.659	53.843	26.655	1.00	60.07
ATOM	19639	CD2	PRO	2929	44.114	53.012	27.511	1.00	60.02
ATOM	19640	CE1	PRO	2929	41.711	53.937	26.444	1.00	59.46
ATOM	19641	CE2	PRO	2929	43.102	53.111	27.338	1.00	60.29
ATOM	19642	CZ	PRO	2929	41.983	53.773	27.318	1.00	59.72
ATOM	19643	C	PRO	2929	43.543	53.038	27.804	1.00	59.23
ATOM	19644	O	PRO	2929	43.570	53.131	26.847	1.00	59.32
ATOM	19645	N	ALA	2930	42.409	53.863	18.127	1.00	57.68
ATOM	19646	CA	ALA	2930	41.212	53.845	17.434	1.00	56.96
ATOM	19647	CB	ALA	2930	39.957	53.139	18.173	1.00	56.84
ATOM	19648	C	ALA	2930	41.717	53.334	16.662	1.00	56.37
ATOM	19649	O	ALA	2930	42.041	53.181	16.850	1.00	56.10
ATOM	19650	N	LYS	2931	43.236	53.517	18.708	1.00	56.19
ATOM	19651	CA	LYS	2931	43.110	53.933	18.332	1.00	56.47
ATOM	19652	CB	LYS	2931	43.110	53.734	18.662	1.00	56.43
ATOM	19653	CG	LYS	2931	41.565	53.013	18.137	1.00	56.84
ATOM	19654	CD	LYS	2931	42.212	53.935	17.839	1.00	57.37
ATOM	19655	CE	LYS	2931	42.283	53.224	17.137	1.00	57.79
ATOM	19656	NZ	LYS	2931	43.308	53.151	16.153	1.00	57.57
ATOM	19657	O	LYS	2931	38.730	53.963	17.481	1.00	56.54
ATOM	19658	C	LYS	2931	38.137	53.059	17.892	1.00	56.44
ATOM	19659	N	ASN	2932	38.202	53.165	14.687	1.00	56.93
ATOM	19660	CA	ASN	2932	36.867	53.510	14.220	1.00	55.89
ATOM	19661	CB	ASN	2932	36.274	53.617	15.099	1.00	55.63
ATOM	19662	CG	ASN	2932	34.735	53.827	14.847	1.00	55.60
ATOM	19663	CD	ASN	2932	34.404	53.747	14.711	1.00	55.24

ATOM	19664	NDP	ASN	2932	34.053	40.111	15.911	1.00	55.48
ATOM	19665	C	ASN	2932	36.946	38.999	12.777	1.00	56.13
ATOM	19666	C	ASN	2932	37.269	40.160	17.527	1.00	56.78
ATOM	19667	N	PHE	2933	36.656	38.115	11.829	1.00	56.14
ATOM	19668	CA	PHE	2933	36.689	38.482	10.437	1.00	57.27
ATOM	19669	CB	PHE	2933	36.815	37.234	9.542	1.00	57.12
ATOM	19670	CG	PHE	2933	38.141	38.540	9.638	1.00	57.30
ATOM	19671	CD1	PHE	2933	38.472	38.809	10.807	1.00	56.85
ATOM	19672	CD2	PHE	2933	39.073	38.621	8.627	1.00	57.13
ATOM	19673	CE1	PHE	2933	39.513	38.209	10.927	1.00	57.60
ATOM	19674	CE2	PHE	2933	40.515	36.006	8.737	1.00	57.60
ATOM	19675	CZ	PHE	2933	40.635	38.249	9.888	1.00	57.81
ATOM	19676	C	PHE	2933	35.471	39.284	10.609	1.00	58.04
ATOM	19677	C	PHE	2933	35.464	39.915	8.957	1.00	58.08
ATOM	19678	N	LEU	2934	34.432	39.242	10.833	1.00	59.10
ATOM	19679	CA	LEU	2934	33.205	39.980	10.556	1.00	59.92
ATOM	19680	CB	LEU	2934	32.050	39.439	11.408	1.00	58.78
ATOM	19681	CG	LEU	2934	33.521	40.100	11.175	1.00	58.62
ATOM	19682	CN1	LEU	2934	36.721	40.110	9.844	1.00	58.10
ATOM	19683	CN2	LEU	2934	38.898	39.610	11.132	1.00	57.76
ATOM	19684	C	LEU	2934	37.426	41.564	10.863	1.00	61.33
ATOM	19685	C	LEU	2934	37.864	42.586	10.113	1.00	61.33
ATOM	19686	N	ALA	2935	34.145	41.531	11.814	1.00	61.38
ATOM	19687	CA	ALA	2935	34.552	43.086	11.273	1.00	64.17
ATOM	19688	CB	ALA	2935	35.128	43.085	13.588	1.00	61.92
ATOM	19689	C	ALA	2935	35.063	43.775	11.188	1.00	65.41
ATOM	19690	C	ALA	2935	33.204	44.972	10.902	1.00	65.96
ATOM	19691	N	GLU	2936	36.129	41.005	10.118	1.00	66.68
ATOM	19692	CA	GLU	2936	37.670	41.523	9.433	1.00	67.61
ATOM	19693	CB	GLU	2936	38.167	42.511	9.109	1.00	68.36
ATOM	19694	CG	GLU	2936	38.961	41.942	10.134	1.00	69.12
ATOM	19695	CD	GLU	2936	39.699	41.070	11.031	1.00	69.84
ATOM	19696	CE1	GLU	2936	39.034	43.933	11.701	1.00	70.61
ATOM	19697	CE2	GLU	2936	40.948	43.944	10.989	1.00	70.16
ATOM	19698	C	GLU	2936	36.216	43.738	8.711	1.00	67.83
ATOM	19699	C	GLU	2936	37.119	44.768	7.718	1.00	67.11
ATOM	19700	N	THR	2937	37.927	42.447	8.711	1.00	67.74
ATOM	19701	CA	THR	2937	37.988	41.646	7.123	1.00	67.13
ATOM	19702	CB	THR	2937	38.961	42.435	6.736	1.00	67.51
ATOM	19703	CG1	THR	2937	37.149	42.736	5.157	1.00	67.13
ATOM	19704	CG2	THR	2937	37.599	41.249	7.048	1.00	67.96
ATOM	19705	C	THR	2937	32.577	41.974	5.757	1.00	66.84
ATOM	19706	O	THR	2937	32.410	44.441	8.863	1.00	66.33
ATOM	19707	N	GLY	2938	31.565	41.650	6.958	1.00	66.14
ATOM	19708	CA	GLY	2938	30.192	43.873	7.534	1.00	65.64
ATOM	19709	C	GLY	2938	29.275	42.753	6.839	1.00	64.88
ATOM	19710	O	GLY	2938	28.054	42.812	7.04	1.00	64.61
ATOM	19711	N	ASP	2939	29.874	41.731	6.833	1.00	63.52
ATOM	19712	CA	ASP	2939	29.123	40.542	5.833	1.00	63.45
ATOM	19713	CB	ASP	2939	29.128	40.535	4.733	1.00	63.45
ATOM	19714	CG	ASP	2939	28.216	39.544	3.939	1.00	63.12
ATOM	19715	OD1	ASP	2939	28.488	38.340	3.833	1.00	63.50
ATOM	19716	OD2	ASP	2939	27.223	39.914	3.041	1.00	63.15
ATOM	19717	C	ASP	2939	29.725	39.277	6.333	1.00	62.43
ATOM	19718	O	ASP	2939	30.928	39.014	6.113	1.00	61.19
ATOM	19719	N	ILE	2940	28.878	38.433	6.933	1.00	61.10
ATOM	19720	CA	ILE	2940	29.310	37.148	7.467	1.00	58.67
ATOM	19721	CB	ILE	2940	28.105	36.342	4.097	1.00	58.60
ATOM	19722	CG2	ILE	2940	28.577	34.996	3.533	1.00	58.62
ATOM	19723	CG1	ILE	2940	27.484	37.136	3.111	1.00	58.19
ATOM	19724	CD1	ILE	2940	26.159	36.472	3.656	1.00	59.03
ATOM	19725	C	ILE	2940	30.133	37.358	6.111	1.00	58.12
ATOM	19726	C	ILE	2940	31.118	36.797	6.633	1.00	57.94
ATOM	19727	N	ARG	2941	29.427	38.171	5.211	1.00	57.15
ATOM	19728	CA	ARG	2941	29.997	37.395	4.133	1.00	56.17
ATOM	19729	CB	ARG	2941	29.133	37.348	3.933	1.00	55.10
ATOM	19730	CG	ARG	2941	27.778	38.525	3.206	1.00	53.72
ATOM	19731	CH	ARG	2941	26.838	37.590	2.913	1.00	52.37
ATOM	19732	NE	ARG	2941	28.594	37.696	2.163	1.00	51.33
ATOM	19733	CZ	ARG	2941	24.891	38.735	3.153	1.00	50.87
ATOM	19734	NH1	ARG	2941	24.937	34.706	4.033	1.00	50.47
ATOM	19735	NH2	ARG	2941	23.793	32.919	3.204	1.00	50.57
ATOM	19736	C	ARG	2941	31.333	35.986	3.721	1.00	57.51
ATOM	19737	O	ARG	2941	32.275	35.254	3.411	1.00	58.07
ATOM	19738	N	ALA	2942	31.394	37.313	3.666	1.00	57.53
ATOM	19739	CA	ALA	2942	32.813	38.001	3.275	1.00	57.14
ATOM	19740	CB	ALA	2942	32.364	38.538	3.243	1.00	57.23

ATOM	19741	C	ALA	2942	33.729	37.663	4.262	1.00	56.97
ATOM	19742	O	ALA	2942	34.882	37.475	3.874	1.00	57.28
ATOM	19743	N	ALA	2943	34.302	37.584	5.540	1.00	56.48
ATOM	19744	CA	ALA	2943	34.338	37.263	6.583	1.00	56.25
ATOM	19745	CP	ALA	2943	34.619	37.369	7.950	1.00	56.65
ATOM	19746	C	ALA	2943	34.896	35.861	6.368	1.00	56.16
ATOM	19747	O	ALA	2943	34.044	35.583	6.712	1.00	56.09
ATOM	19748	N	VAL	2944	34.077	34.984	5.790	1.00	56.16
ATOM	19749	CA	VAL	2944	34.485	32.619	5.526	1.00	55.83
ATOM	19750	CB	VAL	2944	34.279	32.745	5.106	1.00	56.09
ATOM	19751	CG1	VAL	2944	34.745	31.318	4.801	1.00	55.49
ATOM	19752	CG2	VAL	2944	34.254	32.712	6.213	1.00	55.66
ATOM	19753	C	VAL	2944	34.592	33.517	4.420	1.00	55.75
ATOM	19754	O	VAL	2944	34.518	32.969	4.569	1.00	55.47
ATOM	19755	N	ARG	2945	34.357	34.218	3.211	1.00	55.89
ATOM	19756	CA	ARG	2945	34.188	34.264	2.189	1.00	55.74
ATOM	19757	CB	ARG	2945	34.602	35.004	1.034	1.00	55.60
ATOM	19758	CG	ARG	2945	34.413	34.471	0.256	1.00	56.71
ATOM	19759	CD	ARG	2945	34.701	35.115	-0.956	1.00	57.74
ATOM	19760	DE	ARG	2945	34.575	36.585	-0.790	1.00	57.48
ATOM	19761	EZ	ARG	2945	34.113	35.004	-0.199	1.00	55.88
ATOM	19762	NH1	ARG	2945	34.149	34.143	0.228	1.00	57.00
ATOM	19763	NH2	ARG	2945	34.445	38.117	-0.001	1.00	57.76
ATOM	19764	C	ARG	2945	34.050	34.816	2.617	1.00	55.48
ATOM	19765	O	ARG	2945	34.185	34.115	2.116	1.00	55.77
ATOM	19766	N	GLN	2946	34.491	35.316	3.431	1.00	54.96
ATOM	19767	CA	GLN	2946	34.110	36.310	1.918	1.00	54.86
ATOM	19768	CB	GLN	2946	34.368	35.213	4.163	1.00	55.37
ATOM	19769	CG	GLN	2946	34.774	35.110	5.119	1.00	55.17
ATOM	19770	CD	GLN	2946	34.213	34.081	6.161	1.00	58.41
ATOM	19771	OE1	GLN	2946	34.607	40.148	5.015	1.00	59.00
ATOM	19772	NE2	GLN	2946	34.812	38.113	5.273	1.00	58.58
ATOM	19773	C	GLN	2946	34.482	34.119	4.757	1.00	51.69
ATOM	19774	O	GLN	2946	44.207	38.416	4.632	1.00	51.96
ATOM	19775	N	TYR	2947	34.712	34.114	5.571	1.00	52.27
ATOM	19776	CA	TYR	2947	34.809	33.716	6.426	1.00	50.93
ATOM	19777	CB	TYR	2947	34.772	33.016	5.121	1.00	49.81
ATOM	19778	CG	TYR	2947	34.111	31.119	8.170	1.00	48.46
ATOM	19779	CD1	TYR	2947	34.214	31.817	5.880	1.00	48.41
ATOM	19780	CE1	TYR	2947	44.140	30.761	9.576	1.00	48.60
ATOM	19781	CD2	TYR	2947	34.042	30.619	7.884	1.00	48.21
ATOM	19782	CE2	TYR	2947	34.143	29.417	8.567	1.00	47.39
ATOM	19783	CZ	TYR	2947	34.118	29.519	9.408	1.00	48.00
ATOM	19784	OH	TYR	2947	34.017	28.414	10.087	1.00	46.78
ATOM	19785	C	TYR	2947	44.045	32.619	5.574	1.00	50.61
ATOM	19786	O	TYR	2947	41.115	32.315	5.828	1.00	50.43
ATOM	19787	N	MET	2948	34.873	32.114	4.562	1.00	50.13
ATOM	19788	CA	MET	2948	34.816	31.113	3.650	1.00	50.34
ATOM	19789	CB	MET	2948	34.745	30.813	2.627	1.00	50.09
ATOM	19790	CG	MET	2948	34.718	30.214	3.220	1.00	47.16
ATOM	19791	SD	MET	2948	34.110	30.122	1.996	1.00	48.64
ATOM	19792	CE	MET	2948	34.932	29.013	0.769	1.00	48.77
ATOM	19793	C	MET	2948	41.134	31.711	2.921	1.00	51.53
ATOM	19794	O	MET	2948	41.109	31.018	3.821	1.00	52.21
ATOM	19795	N	ALA	2949	41.001	32.913	2.401	1.00	50.86
ATOM	19796	CA	ALA	2949	41.103	33.513	1.674	1.00	51.31
ATOM	19797	CB	ALA	2949	41.610	34.615	1.031	1.00	51.01
ATOM	19798	C	ALA	2949	41.328	33.710	2.547	1.00	51.80
ATOM	19799	O	ALA	2949	41.157	33.518	2.128	1.00	52.31
ATOM	19800	N	GLU	2950	41.112	34.216	3.758	1.00	52.03
ATOM	19801	CA	GLU	2950	41.222	34.513	4.661	1.00	52.73
ATOM	19802	CP	GLU	2950	41.280	35.013	5.669	1.00	53.51
ATOM	19803	CG	GLU	2950	41.393	34.864	5.627	1.00	53.18
ATOM	19804	CD	GLU	2950	41.213	34.643	6.866	1.00	53.56
ATOM	19805	OE1	GLU	2950	41.847	37.429	7.921	1.00	53.39
ATOM	19806	EZ	GLU	2950	41.292	34.478	8.797	1.00	54.78
ATOM	19807	C	GLU	2950	41.401	33.749	9.129	1.00	53.13
ATOM	19808	O	GLU	2950	41.168	33.404	5.413	1.00	53.12
ATOM	19809	N	VAL	2951	41.272	33.213	5.210	1.00	53.06
ATOM	19810	CA	VAL	2951	41.093	33.721	5.041	1.00	53.11
ATOM	19811	CP	VAL	2951	41.849	34.071	5.475	1.00	53.31
ATOM	19812	CG1	VAL	2951	41.511	32.711	6.159	1.00	53.01
ATOM	19813	CG2	VAL	2951	41.019	30.327	7.174	1.00	53.46
ATOM	19814	C	VAL	2951	41.849	30.442	4.568	1.00	53.16
ATOM	19815	O	VAL	2951	41.011	31.145	4.847	1.00	53.25
ATOM	19816	N	GLY	2952	41.148	31.148	3.141	1.00	53.64
ATOM	19817	CA	GLY	2952	41.177	31.148	2.132	1.00	54.12

ATCM	19818	CB	GLU	2952	45.328	29.793	0.947	1.00	54.72
ATCM	19819	CG	GLU	2952	46.082	29.252	-0.261	1.00	55.51
ATCM	19820	CD	GLU	2952	45.757	29.200	-1.532	1.00	56.73
ATCM	19821	OE1	GLU	2952	45.734	28.890	-2.594	1.00	57.69
ATCM	19822	OE2	GLU	2952	44.092	29.750	-1.473	1.00	56.56
ATCM	19823	C	GLU	2952	47.336	30.730	2.027	1.00	54.22
ATCM	19824	O	GLU	2952	48.480	30.166	1.008	1.00	54.53
ATCM	19825	N	SEP	2953	47.162	32.015	1.723	1.00	54.17
ATCM	19826	CA	SEP	2953	48.112	31.993	1.126	1.00	54.41
ATCM	19827	CB	SEP	2953	47.650	34.407	1.129	1.00	54.29
ATCM	19828	OG	SEP	2953	46.776	34.642	1.03	1.00	56.12
ATCM	19829	C	SEP	2953	48.139	32.892	1.247	1.00	54.04
ATCM	19830	O	SEP	2953	50.487	32.843	1.094	1.00	54.17
ATCM	19831	N	GLY	2954	48.771	32.750	4.118	1.00	53.77
ATCM	19832	CA	GLY	2954	48.642	32.657	5.167	1.00	53.06
ATCM	19833	C	GLY	2954	48.442	33.831	6.104	1.00	51.86
ATCM	19834	O	GLY	2954	48.905	33.834	7.713	1.00	51.86
ATCM	19835	N	VAL	2955	48.650	34.815	6.153	1.00	51.98
ATCM	19836	CA	VAL	2955	48.138	36.003	6.957	1.00	53.65
ATCM	19837	CB	VAL	2955	48.846	36.001	6.731	1.00	54.01
ATCM	19838	CG1	VAL	2955	48.111	38.100	7.069	1.00	53.95
ATCM	19839	CG2	VAL	2955	48.980	37.800	4.846	1.00	54.14
ATCM	19840	C	VAL	2955	48.776	35.606	8.143	1.00	54.39
ATCM	19841	O	VAL	2955	48.005	36.136	9.553	1.00	53.42
ATCM	19842	N	TYR	2956	48.854	34.569	8.143	1.00	54.30
ATCM	19843	CA	TYR	2956	48.111	34.139	9.457	1.00	53.41
ATCM	19844	CB	TYR	2956	48.778	34.133	9.146	1.00	53.40
ATCM	19845	CG	TYR	2956	48.014	32.337	10.599	1.00	53.61
ATCM	19846	CD1	TYR	2956	48.012	33.600	11.762	1.00	53.68
ATCM	19847	CE1	TYR	2956	48.843	34.131	11.963	1.00	53.33
ATCM	19848	CD2	TYR	2956	48.168	32.663	10.801	1.00	53.30
ATCM	19849	CE2	TYR	2956	48.962	32.331	11.773	1.00	53.43
ATCM	19850	CG	TYR	2956	48.966	33.627	11.963	1.00	53.65
ATCM	19851	CH	TYR	2956	48.002	32.661	14.063	1.00	53.77
ATCM	19852	C	TYR	2956	48.117	32.331	15.60	1.00	53.39
ATCM	19853	O	TYR	2956	48.118	31.329	16.733	1.00	53.17
ATCM	19854	N	PRO	2957	48.852	32.113	10.969	1.00	53.16
ATCM	19855	CD	PRO	2957	48.117	30.854	11.869	1.00	53.15
ATCM	19856	CA	PRO	2957	48.119	31.116	12.003	1.00	53.39
ATCM	19857	CB	PRO	2957	48.111	31.113	12.139	1.00	53.39
ATCM	19858	C	PRO	2957	48.772	30.160	11.669	1.00	53.47
ATCM	19859	CG	PRO	2957	48.145	32.408	11.963	1.00	53.30
ATCM	19860	O	PRO	2957	48.413	32.412	11.463	1.00	53.17
ATCM	19861	N	GLY	2958	48.330	33.148	12.513	1.00	53.29
ATCM	19862	CA	GLY	2958	48.531	33.991	12.504	1.00	53.19
ATCM	19863	C	GLY	2958	50.489	33.834	13.668	1.00	53.90
ATCM	19864	O	GLY	2958	50.169	34.612	14.183	1.00	53.33
ATCM	19865	N	GLU	2959	51.176	36.535	13.773	1.00	60.38
ATCM	19866	CA	GLU	2959	51.111	36.490	15.056	1.00	60.37
ATCM	19867	CB	GLU	2959	51.437	37.413	14.938	1.00	61.10
ATCM	19868	CG	GLU	2959	54.111	37.127	16.966	1.00	61.32
ATCM	19869	CD	GLU	2959	55.135	36.826	15.818	1.00	61.12
ATCM	19870	OE1	GLU	2959	56.067	36.879	16.818	1.00	61.78
ATCM	19871	OE2	GLU	2959	55.138	36.851	14.867	1.00	61.30
ATCM	19872	C	GLU	2959	51.665	36.843	16.413	1.00	60.34
ATCM	19873	O	GLU	2959	51.437	36.853	17.384	1.00	60.59
ATCM	19874	N	GLU	2960	51.434	37.154	16.413	1.00	61.19
ATCM	19875	CA	GLU	2960	48.859	36.889	17.133	1.00	61.39
ATCM	19876	CB	GLU	2960	48.811	36.882	17.553	1.00	61.37
ATCM	19877	CG	GLU	2960	49.180	36.854	16.546	1.00	61.37
ATCM	19878	CD	GLU	2960	49.617	36.861	15.123	1.00	61.41
ATCM	19879	OE1	GLU	2960	47.862	36.135	14.138	1.00	61.35
ATCM	19880	OE2	GLU	2960	49.933	36.130	14.301	1.00	61.38
ATCM	19881	C	GLU	2960	48.077	36.140	18.032	1.00	61.91
ATCM	19882	O	GLU	2960	48.947	36.131	18.113	1.00	61.32
ATCM	19883	N	HIS	2961	48.533	37.133	17.115	1.00	61.34
ATCM	19884	CA	HIS	2961	47.712	34.635	17.196	1.00	60.73
ATCM	19885	CB	HIS	2961	46.883	34.636	15.457	1.00	59.89
ATCM	19886	CG	HIS	2961	46.113	35.607	15.564	1.00	59.77
ATCM	19887	CD	HIS	2961	46.903	36.131	14.302	1.00	59.17
ATCM	19888	OE1	HIS	2961	45.233	36.136	16.333	1.00	59.84
ATCM	19889	OE2	HIS	2961	44.763	37.131	15.663	1.00	58.19
ATCM	19890	N	HIS	2961	45.233	37.336	14.433	1.00	57.59
ATCM	19891	C	HIS	2961	48.599	33.391	17.437	1.00	60.75
ATCM	19892	O	HIS	2961	48.103	32.261	17.437	1.00	60.35
ATCM	19893	N	SEP	2962	49.897	33.619	17.614	1.00	60.45
ATCM	19894	CA	SEP	2962	50.839	32.529	17.844	1.00	60.14

ATOM	19895	CB	SEP	2962	52.007	32.670	16.862	1.00	60.35
ATOM	19896	CG	SEP	2962	51.552	32.553	15.522	1.00	59.02
ATOM	19897	C	SEP	2962	51.770	32.518	19.273	1.00	60.73
ATOM	19898	O	SEP	2962	51.739	33.554	19.964	1.00	60.10
ATOM	19899	N	FHE	2963	51.851	31.316	19.708	1.00	61.57
ATOM	19900	CA	FHE	2963	52.394	31.194	21.05	1.00	62.25
ATOM	19901	CE	FHE	2963	51.644	30.091	21.801	1.00	63.03
ATOM	19902	CG	FHE	2963	50.248	30.470	22.224	1.00	64.44
ATOM	19903	CD1	FHE	2963	49.278	30.770	21.256	1.00	64.83
ATOM	19904	CD2	FHE	2963	49.903	30.552	23.560	1.00	64.71
ATOM	19905	CE1	FHE	2963	47.983	31.167	21.632	1.00	64.99
ATOM	19906	CE2	FHE	2963	48.614	30.906	23.948	1.00	65.11
ATOM	19907	CZ	FHE	2963	47.651	31.385	22.981	1.00	65.10
ATOM	19908	C	FHE	2963	53.880	30.853	21.006	1.00	62.31
ATOM	19909	O	FHE	2963	54.079	30.323	20.031	1.00	61.84
ATOM	19910	N	HIS	2964	54.577	31.156	22.096	1.00	62.35
ATOM	19911	CA	HIS	2964	56.007	30.897	22.201	1.00	62.42
ATOM	19912	CB	HIS	2964	56.195	32.135	21.771	1.00	62.17
ATOM	19913	CG	HIS	2964	56.454	32.468	20.331	1.00	62.11
ATOM	19914	CD1	HIS	2964	56.353	33.516	19.666	1.00	61.96
ATOM	19915	CD2	HIS	2964	57.132	31.652	19.129	1.00	62.12
ATOM	19916	CE1	HIS	2964	56.873	32.193	18.134	1.00	62.55
ATOM	19917	CE2	HIS	2964	56.130	33.340	18.444	1.00	62.13
ATOM	19918	C	HIS	2964	56.782	30.514	21.623	1.00	62.87
ATOM	19919	O	HIS	2964	57.101	29.567	22.334	1.00	63.17
ATOM	19920	CNT	HIS	2964	55.958	31.182	14.118	1.00	63.88
ATOM	19921	C1	FPL	2965	38.159	24.790	19.199	1.00	44.32
ATOM	19922	C2	FPL	2965	38.509	23.997	18.389	1.00	44.37
ATOM	19923	C3	FPL	2965	38.676	23.219	17.318	1.00	44.11
ATOM	19924	C4	FPL	2965	39.694	22.518	18.376	1.00	44.41
ATOM	19925	C5	FPL	2965	40.466	23.173	19.996	1.00	46.53
ATOM	19926	C5	FPL	2965	37.914	22.846	19.101	1.00	44.46
ATOM	19927	C2	FPL	2965	38.135	22.811	19.196	1.00	45.29
ATOM	19928	C6	FPL	2965	38.112	23.665	19.111	1.00	44.39
ATOM	19929	C3	FPL	2965	35.150	23.016	18.981	1.00	44.59
ATOM	19930	C4	FPL	2965	35.182	21.912	19.176	1.00	43.64
ATOM	19931	MG+2	M62	3001	3.894	14.116	47.685	1.00	41.37
ATOM	19932	MG+2	M62	3001	6.167	28.108	15.113	1.00	41.86
ATOM	19933	MG+2	M62	3001	-3.050	1.949	0.112	1.00	28.64
ATOM	19934	MG+2	M62	3004	-12.175	19.311	23.487	1.00	24.57
ATOM	19935	MG+2	M62	3005	-7.105	-9.894	52.110	1.00	34.50
ATOM	19936	MG+2	M62	3006	27.460	-4.705	0.834	1.00	30.26
ATOM	19937	MG+2	M62	3007	17.531	-30.333	18.834	1.00	32.29
ATOM	19938	MG+2	M62	3008	19.663	-21.314	49.936	1.00	25.48
ATOM	19939	MG+2	M62	3009	31.302	8.750	51.347	1.00	41.34
ATOM	19940	MG+2	M62	3011	36.277	19.379	21.031	1.00	52.60
ATOM	19941	OH2	WAT	3011	31.424	-16.107	39.416	1.00	10.76
ATOM	19942	OH2	WAT	3012	12.698	-18.611	32.834	1.00	10.49
ATOM	19943	OH2	WAT	3013	-8.246	1.449	11.114	1.00	13.19
ATOM	19944	OH2	WAT	3014	27.207	-31.335	22.813	1.00	13.62
ATOM	19945	OH2	WAT	3015	25.517	-21.382	20.117	1.00	10.14
ATOM	19946	OH2	WAT	3016	-7.674	17.525	37.116	1.00	11.74
ATOM	19947	OH2	WAT	3017	-2.159	-6.488	21.338	1.00	15.76
ATOM	19948	OH2	WAT	3018	0.835	-9.327	15.417	1.00	11.52
ATOM	19949	OH2	WAT	3019	3.764	-32.000	22.114	1.00	11.84
ATOM	19950	OH2	WAT	3020	37.123	-1.512	39.511	1.00	16.58
ATOM	19951	OH2	WAT	3021	17.333	-46.139	14.518	1.00	11.60
ATOM	19952	OH2	WAT	3022	10.175	-17.843	12.117	1.00	15.20
ATOM	19953	OH2	WAT	3023	15.784	-11.847	14.310	1.00	11.48
ATOM	19954	OH2	WAT	3024	-14.336	22.510	-15.314	1.00	17.54
ATOM	19955	OH2	WAT	3025	12.377	-9.564	9.510	1.00	14.81
ATOM	19956	OH2	WAT	3026	-33.337	13.411	21.113	1.00	27.61
ATOM	19957	OH2	WAT	3027	-3.763	-12.316	30.418	1.00	16.08
ATOM	19958	OH2	WAT	3028	-3.882	-9.133	33.617	1.00	15.34
ATOM	19959	OH1	WAT	3029	-1.189	-5.814	41.212	1.00	11.24
ATOM	19960	OH2	WAT	3030	4.147	-4.048	43.611	1.00	15.33
ATOM	19961	OH2	WAT	3031	16.343	-2.515	47.919	1.00	11.90
ATOM	19962	OH2	WAT	3032	12.241	13.410	34.113	1.00	14.79
ATOM	19963	OH1	WAT	3033	-3.295	-12.445	22.615	1.00	13.46
ATOM	19964	OH1	WAT	3034	14.381	-12.711	16.011	1.00	13.41
ATOM	19965	OH2	WAT	3035	23.192	-17.361	37.615	1.00	11.11
ATOM	19966	OH2	WAT	3036	29.576	-3.425	54.716	1.00	16.58
ATOM	19967	OH2	WAT	3037	25.616	-14.473	37.113	1.00	13.91
ATOM	19968	OH1	WAT	3038	18.453	7.414	47.410	1.00	13.74
ATOM	19969	OH1	WAT	3039	1.185	-2.768	9.612	1.00	15.10
ATOM	19970	OH1	WAT	3040	1.318	-4.718	14.137	1.00	16.80
ATOM	19971	OH1	WAT	3041	-3.882	-2.310	43.101	1.00	10.62

ATCM	19972	OH2	WAT	3042	-1.580	-10.794	33.597	1.00	12.62
ATCM	19973	OH2	WAT	3043	-12.914	-8.541	27.617	1.00	12.73
ATCM	19974	OH2	WAT	3044	21.710	13.409	25.403	1.00	31.57
ATCM	19975	OH2	WAT	3045	7.683	-20.302	30.441	1.00	10.85
ATCM	19976	OH2	WAT	3046	1.162	-30.671	18.266	1.00	15.68
ATCM	19977	OH2	WAT	3047	28.173	7.798	31.871	1.00	20.07
ATCM	19978	OH2	WAT	3048	-1.179	-14.949	31.883	1.00	15.42
ATCM	19979	OH2	WAT	3049	13.211	14.116	19.297	1.00	20.69
ATCM	19980	OH2	WAT	3050	-2.044	20.189	37.456	1.00	16.68
ATCM	19981	OH2	WAT	3051	17.876	-14.431	39.567	1.00	16.80
ATCM	19982	OH2	WAT	3052	-0.744	-30.549	10.671	1.00	17.77
ATCM	19983	OH2	WAT	3053	35.481	-39.758	19.147	1.00	10.71
ATCM	19984	OH2	WAT	3054	-9.507	4.676	-13.786	1.00	16.79
ATCM	19985	OH2	WAT	3055	31.604	-1.451	48.291	1.00	14.77
ATCM	19986	OH2	WAT	3056	-14.406	5.407	38.561	1.00	16.57
ATCM	19987	OH2	WAT	3057	-0.928	-11.951	36.648	1.00	10.27
ATCM	19988	OH2	WAT	3058	0.468	-17.148	54.101	1.00	17.45
ATCM	19989	OH2	WAT	3059	5.125	-36.601	35.570	1.00	20.10
ATCM	19990	OH2	WAT	3060	0.620	-57.157	17.066	1.00	14.88
ATCM	19991	OH2	WAT	3061	17.816	-20.167	4.143	1.00	14.59
ATCM	19992	OH2	WAT	3062	24.310	1.623	14.647	1.00	17.79
ATCM	19993	OH2	WAT	3063	-1.111	1.160	33.133	1.00	18.11
ATCM	19994	OH2	WAT	3064	3.118	-19.167	1.137	1.00	17.88
ATCM	19995	OH2	WAT	3065	1.191	-4.151	43.136	1.00	19.13
ATCM	19996	OH2	WAT	3066	-11.786	17.147	1.147	1.00	17.94
ATCM	19997	OH2	WAT	3067	3.188	-6.171	4.188	1.00	14.86
ATCM	19998	OH2	WAT	3068	11.617	-19.114	3.146	1.00	15.83
ATCM	19999	OH2	WAT	3069	19.165	-47.183	1.171	1.00	11.86
ATCM	20000	OH2	WAT	3070	-9.977	-17.153	6.121	1.00	17.87
ATCM	20001	OH2	WAT	3071	9.085	-16.151	13.147	1.00	14.85
ATCM	20002	OH2	WAT	3072	39.416	1.131	14.158	1.00	18.14
ATCM	20003	OH2	WAT	3073	3.130	1.016	19.444	1.00	17.25
ATCM	20004	OH2	WAT	3074	-16.708	1.134	-14.183	1.00	14.94
ATCM	20005	OH2	WAT	3075	-0.637	-17.154	14.161	1.00	17.11
ATCM	20006	OH2	WAT	3076	14.967	-37.183	-4.181	1.00	16.81
ATCM	20007	OH2	WAT	3077	-6.147	1.167	11.778	1.00	16.87
ATCM	20008	OH2	WAT	3078	24.134	-6.741	41.779	1.00	16.83
ATCM	20009	OH2	WAT	3079	-0.134	-14.151	17.166	1.00	10.87
ATCM	20010	OH2	WAT	3080	15.886	-44.157	15.440	1.00	16.14
ATCM	20011	OH2	WAT	3081	1.168	-6.744	11.847	1.00	16.70
ATCM	20012	OH2	WAT	3082	18.007	-31.421	48.902	1.00	14.66
ATCM	20013	OH2	WAT	3083	17.808	-19.814	11.174	1.00	20.53
ATCM	20014	OH2	WAT	3084	17.717	-23.811	16.919	1.00	14.66
ATCM	20015	OH2	WAT	3085	20.450	-28.017	3.495	1.00	20.13
ATCM	20016	OH2	WAT	3086	-16.170	8.689	40.975	1.00	13.28
ATCM	20017	OH2	WAT	3087	25.112	-9.813	31.141	1.00	17.88
ATCM	20018	OH2	WAT	3088	11.933	-37.175	-1.467	1.00	16.78
ATCM	20019	OH2	WAT	3089	-1.460	-3.681	17.486	1.00	14.31
ATCM	20020	OH2	WAT	3090	21.173	-4.883	18.181	1.00	17.88
ATCM	20021	OH2	WAT	3091	-4.169	-16.116	27.176	1.00	16.79
ATCM	20022	OH2	WAT	3092	-19.387	-1.116	1.119	1.00	11.58
ATCM	20023	OH2	WAT	3093	3.110	-8.134	11.154	1.00	16.70
ATCM	20024	OH2	WAT	3094	-13.894	6.192	14.192	1.00	11.13
ATCM	20025	OH2	WAT	3095	34.364	-11.133	11.195	1.00	14.78
ATCM	20026	OH2	WAT	3096	-14.155	6.093	1.120	1.00	16.70
ATCM	20027	OH2	WAT	3097	-1.640	-1.112	6.118	1.00	14.25
ATCM	20028	OH2	WAT	3098	11.136	-16.887	34.123	1.00	14.37
ATCM	20029	OH2	WAT	3099	-6.136	-2.113	3.117	1.00	15.91
ATCM	20030	OH2	WAT	3100	6.118	-54.164	14.199	1.00	14.87
ATCM	20031	OH2	WAT	3101	21.198	1.113	31.134	1.00	20.81
ATCM	20032	OH2	WAT	3102	1.117	-4.183	1.141	1.00	16.16
ATCM	20033	OH2	WAT	3103	1.118	-21.148	11.156	1.00	16.81
ATCM	20034	OH2	WAT	3104	3.110	16.171	6.107	1.00	11.81
ATCM	20035	OH2	WAT	3105	1.149	11.133	14.155	1.00	16.31
ATCM	20036	OH2	WAT	3106	-1.165	-6.134	11.116	1.00	11.81
ATCM	20037	OH2	WAT	3107	26.181	-0.150	6.161	1.00	16.81
ATCM	20038	OH2	WAT	3108	1.621	-24.273	29.171	1.00	16.01
ATCM	20039	OH2	WAT	3109	-1.157	3.695	-13.106	1.00	17.13
ATCM	20040	OH2	WAT	3110	-1.108	3.177	-13.154	1.00	16.87
ATCM	20041	OH2	WAT	3111	-11.176	-15.830	3.135	1.00	14.44
ATCM	20042	OH2	WAT	3112	6.644	-13.039	11.140	1.00	14.37
ATCM	20043	OH2	WAT	3113	10.416	-45.639	3.180	1.00	16.78
ATCM	20044	OH2	WAT	3114	14.131	-11.144	39.143	1.00	11.51
ATCM	20045	OH2	WAT	3115	31.670	-1.614	10.166	1.00	16.84
ATCM	20046	OH2	WAT	3116	21.070	-7.973	16.152	1.00	16.09
ATCM	20047	OH2	WAT	3117	11.141	-9.992	43.152	1.00	19.27
ATCM	20048	OH2	WAT	3118	31.181	10.127	4.606	1.00	17.90

ATOM	20049	OH2	WAT	3119	11.474	-5.062	8.572	1.00	16.56
ATOM	20050	OH2	WAT	3120	17.899	-16.896	10.746	1.00	14.76
ATOM	20051	OH2	WAT	3121	9.407	1.445	-5.210	1.00	17.70
ATOM	20052	OH2	WAT	3122	11.378	-25.783	40.687	1.00	19.75
ATOM	20053	OH2	WAT	3123	30.129	-21.017	24.510	1.00	15.05
ATOM	20054	OH2	WAT	3124	15.046	-43.858	18.014	1.00	11.57
ATOM	20055	OH2	WAT	3125	-9.121	2.705	47.977	1.00	17.81
ATOM	20056	OH2	WAT	3126	34.332	-14.434	66.677	1.00	24.84
ATOM	20057	OH2	WAT	3127	-3.756	0.887	51.817	1.00	21.71
ATOM	20058	OH2	WAT	3128	33.137	-10.551	35.154	1.00	17.96
ATOM	20059	OH2	WAT	3129	20.042	-48.084	19.397	1.00	17.39
ATOM	20060	OH2	WAT	3130	7.759	-16.513	-9.034	1.00	16.41
ATOM	20061	OH2	WAT	3131	-2.961	-28.113	17.167	1.00	11.64
ATOM	20062	OH2	WAT	3132	8.735	-17.442	10.957	1.00	15.13
ATOM	20063	OH2	WAT	3133	10.635	-14.815	5.474	1.00	17.36
ATOM	20064	OH2	WAT	3134	-1.467	15.579	21.111	1.00	21.02
ATOM	20065	OH2	WAT	3135	22.262	-31.595	54.477	1.00	15.17
ATOM	20066	OH2	WAT	3136	-13.401	-21.507	21.111	1.00	27.07
ATOM	20067	OH2	WAT	3137	5.118	-21.347	37.443	1.00	12.14
ATOM	20068	OH2	WAT	3138	-15.019	-1.585	14.661	1.00	19.35
ATOM	20069	OH2	WAT	3139	-1.531	-40.862	1.751	1.00	17.71
ATOM	20070	OH2	WAT	3140	-1.509	-4.051	34.144	1.00	16.31
ATOM	20071	OH2	WAT	3141	-19.604	14.335	36.277	1.00	20.17
ATOM	20072	OH2	WAT	3142	-6.015	-42.385	11.119	1.00	16.76
ATOM	20073	OH2	WAT	3143	-7.945	16.581	-13.471	1.00	17.77
ATOM	20074	OH2	WAT	3144	30.792	28.577	44.434	1.00	22.73
ATOM	20075	OH2	WAT	3145	-3.294	18.309	5.213	1.00	15.61
ATOM	20076	OH2	WAT	3146	30.577	-21.353	48.873	1.00	11.78
ATOM	20077	OH2	WAT	3147	-11.835	13.964	8.863	1.00	18.13
ATOM	20078	OH2	WAT	3148	5.189	16.665	10.867	1.00	16.74
ATOM	20079	OH2	WAT	3149	8.119	-17.924	40.763	1.00	16.76
ATOM	20080	OH2	WAT	3150	41.380	-1.644	40.145	1.00	18.71
ATOM	20081	OH2	WAT	3151	-5.145	-39.321	9.888	1.00	18.15
ATOM	20082	OH2	WAT	3152	8.168	9.770	12.989	1.00	15.65
ATOM	20083	OH2	WAT	3153	13.514	-6.354	11.613	1.00	21.35
ATOM	20084	OH2	WAT	3154	11.310	-17.545	7.868	1.00	13.69
ATOM	20085	OH2	WAT	3155	-13.114	-11.582	11.143	1.00	16.41
ATOM	20086	OH2	WAT	3156	-1.231	-11.180	1.177	1.00	15.13
ATOM	20087	OH2	WAT	3157	-12.431	-1.089	29.719	1.00	12.26
ATOM	20088	OH2	WAT	3158	-3.548	-35.710	27.747	1.00	16.38
ATOM	20089	OH2	WAT	3159	-17.120	5.058	27.848	1.00	16.34
ATOM	20090	OH2	WAT	3160	13.475	-11.617	54.843	1.00	18.64
ATOM	20091	OH2	WAT	3161	-5.243	-43.314	13.813	1.00	19.60
ATOM	20092	OH2	WAT	3162	-13.149	-10.111	19.903	1.00	15.76
ATOM	20093	OH2	WAT	3163	2.054	-26.377	13.318	1.00	21.37
ATOM	20094	OH2	WAT	3164	23.931	-29.593	61.802	1.00	20.35
ATOM	20095	OH2	WAT	3165	24.933	1.982	44.338	1.00	17.45
ATOM	20096	OH2	WAT	3166	16.321	-50.333	21.344	1.00	14.35
ATOM	20097	OH2	WAT	3167	4.145	-10.137	40.451	1.00	18.19
ATOM	20098	OH2	WAT	3168	-6.512	11.535	36.475	1.00	18.32
ATOM	20099	OH2	WAT	3169	12.980	-1.497	11.385	1.00	15.38
ATOM	20100	OH2	WAT	3170	25.236	1.920	13.913	1.00	16.06
ATOM	20101	OH2	WAT	3171	-18.010	21.374	52.313	1.00	26.78
ATOM	20102	OH2	WAT	3172	37.439	11.624	63.153	1.00	18.33
ATOM	20103	OH2	WAT	3173	40.548	1.985	37.739	1.00	20.00
ATOM	20104	OH2	WAT	3174	-7.860	3.921	43.347	1.00	16.64
ATOM	20105	OH2	WAT	3175	4.737	-15.657	43.656	1.00	23.34
ATOM	20106	OH2	WAT	3176	19.671	-3.177	11.133	1.00	15.31
ATOM	20107	OH2	WAT	3177	9.864	-0.921	3.331	1.00	19.67
ATOM	20108	OH2	WAT	3178	15.798	-18.835	13.311	1.00	15.34
ATOM	20109	OH2	WAT	3179	-13.409	-1.361	14.310	1.00	15.39
ATOM	20110	OH2	WAT	3180	5.816	23.233	43.483	1.00	19.33
ATOM	20111	OH2	WAT	3181	21.204	15.086	34.364	1.00	19.13
ATOM	20112	OH2	WAT	3182	33.264	-12.307	53.951	1.00	22.43
ATOM	20113	OH2	WAT	3183	-19.732	-30.013	13.210	1.00	15.02
ATOM	20114	OH2	WAT	3184	30.618	19.738	73.035	1.00	18.96
ATOM	20115	OH2	WAT	3185	15.397	11.866	3.883	1.00	13.84
ATOM	20116	OH2	WAT	3186	5.307	4.433	11.034	1.00	19.87
ATOM	20117	OH2	WAT	3187	-14.936	18.737	-13.520	1.00	11.75
ATOM	20118	OH2	WAT	3188	17.233	3.845	43.999	1.00	15.76
ATOM	20119	OH2	WAT	3189	18.332	-35.199	37.473	1.00	21.41
ATOM	20120	OH2	WAT	3190	3.316	10.973	16.653	1.00	17.09
ATOM	20121	OH2	WAT	3191	-5.268	0.118	45.115	1.00	20.11
ATOM	20122	OH2	WAT	3192	8.866	-56.097	22.359	1.00	21.50
ATOM	20123	OH2	WAT	3193	4.755	11.704	21.103	1.00	21.31
ATOM	20124	OH2	WAT	3194	13.479	2.747	1.139	1.00	24.15
ATOM	20125	OH2	WAT	3195	6.319	1.587	13.344	1.00	18.78

ATOM	20116	CH	WAT	3196	5.422	15.829	26.439	1.00	19.29
ATOM	20117	CH	WAT	3197	-13.894	-11.050	64.371	1.00	18.77
ATOM	20118	CH	WAT	3198	3.457	-13.831	20.198	1.00	16.50
ATOM	20119	CH	WAT	3199	13.511	-27.216	36.881	1.00	18.17
ATOM	20120	CH	WAT	3200	10.479	-16.467	40.801	1.00	14.11
ATOM	20121	CH	WAT	3201	12.084	1.615	46.456	1.00	19.77
ATOM	20122	CH	WAT	3202	1.1551	-21.751	6.933	1.00	19.12
ATOM	20123	CH	WAT	3203	30.158	-1.193	39.421	1.00	23.25
ATOM	20124	CH	WAT	3204	27.131	-46.200	11.674	1.00	18.08
ATOM	20125	CH	WAT	3205	-16.806	20.587	21.513	1.00	21.59
ATOM	20126	CH	WAT	3206	21.446	8.009	4.362	1.00	21.71
ATOM	20127	CH	WAT	3207	-1.437	-43.569	11.196	1.00	14.68
ATOM	20128	CH	WAT	3208	6.165	17.099	16.794	1.00	19.35
ATOM	20129	CH	WAT	3209	6.456	-5.328	18.023	1.00	16.11
ATOM	20130	CH	WAT	3210	17.154	-15.437	28.133	1.00	15.55
ATOM	20131	CH	WAT	3211	1.388	-14.101	39.957	1.00	16.30
ATOM	20132	CH	WAT	3212	-8.445	-43.390	21.151	1.00	15.83
ATOM	20133	CH	WAT	3213	-1.149	-2.138	11.671	1.00	16.70
ATOM	20134	CH	WAT	3214	18.608	-18.608	9.491	1.00	21.11
ATOM	20135	CH	WAT	3215	46.247	14.683	6.172	1.00	17.97
ATOM	20136	CH	WAT	3216	28.119	-2.148	40.811	1.00	18.11
ATOM	20137	CH	WAT	3217	21.118	6.668	-2.185	1.00	21.39
ATOM	20138	CH	WAT	3218	18.111	-1.111	-1.111	1.00	17.15
ATOM	20139	CH	WAT	3219	16.119	-6.304	69.686	1.00	2.11
ATOM	20120	CH	WAT	3220	1.147	6.313	50.690	1.00	15.72
ATOM	20121	H	WAT	3221	-21.487	-28.861	11.111	1.00	24.55
ATOM	20122	H	WAT	3222	-11.861	6.468	5.162	1.00	22.85
ATOM	20123	H	WAT	3223	1.116	-17.361	9.166	1.00	14.32
ATOM	20124	H	WAT	3224	1.167	18.658	21.660	1.00	2.11
ATOM	20125	H	WAT	3225	1.416	-1.165	-17.164	1.00	15.12
ATOM	20126	H	WAT	3226	-1.116	18.135	-4.134	1.00	18.87
ATOM	20127	CH	WAT	3227	43.117	19.118	59.413	1.00	21.61
ATOM	20128	CH	WAT	3228	11.197	1.111	16.666	1.00	18.50
ATOM	20129	CH	WAT	3229	-11.118	18.111	9.111	1.00	20.79
ATOM	20130	CH	WAT	3230	-21.148	-1.111	61.141	1.00	27.89
ATOM	20131	CH	WAT	3231	30.118	-36.114	21.111	1.00	15.84
ATOM	20132	CH	WAT	3232	39.118	1.111	61.111	1.00	17.48
ATOM	20133	CH	WAT	3233	-2.111	-14.111	1.111	1.00	19.26
ATOM	20134	CH	WAT	3234	3.441	-1.111	2.111	1.00	24.36
ATOM	20135	CH	WAT	3235	3.111	3.443	9.111	1.00	19.77
ATOM	20136	CH	WAT	3236	-16.111	-4.111	2.111	1.00	16.67
ATOM	20137	CH	WAT	3237	-20.111	-1.111	1.111	1.00	17.79
ATOM	20138	CH	WAT	3238	6.111	-1.111	54.111	1.00	23.74
ATOM	20139	CH	WAT	3239	3.111	-4.111	1.111	1.00	18.74
ATOM	20140	CH	WAT	3240	6.111	-36.111	3.111	1.00	27.01
ATOM	20141	H	WAT	3241	-5.441	1.111	1.111	1.00	25.68
ATOM	20142	H	WAT	3242	5.111	-1.441	1.111	1.00	16.66
ATOM	20143	H	WAT	3243	-12.111	18.111	1.111	1.00	26.56
ATOM	20144	CH	WAT	3244	1.941	-5.111	2.111	1.00	18.25
ATOM	20145	CH	WAT	3245	23.111	4.441	1.111	1.00	21.74
ATOM	20146	CH	WAT	3246	23.111	-8.441	-1.111	1.00	22.34
ATOM	20147	CH	WAT	3247	16.111	2.111	2.111	1.00	17.27
ATOM	20148	CH	WAT	3248	25.111	1.111	3.111	1.00	24.47
ATOM	20149	CH	WAT	3249	12.111	1.111	-1.111	1.00	17.88
ATOM	20150	CH	WAT	3250	21.445	-1.111	5.111	1.00	18.50
ATOM	20151	CH	WAT	3251	6.111	-1.111	-1.111	1.00	18.83
ATOM	20152	CH	WAT	3252	24.111	-2.111	4.111	1.00	21.31
ATOM	20153	CH	WAT	3253	-14.111	-1.111	1.111	1.00	18.01
ATOM	20154	CH	WAT	3254	6.111	-1.111	4.111	1.00	18.11
ATOM	20155	CH	WAT	3255	25.111	1.111	2.111	1.00	21.17
ATOM	20156	CH	WAT	3256	4.111	-1.111	5.111	1.00	16.97
ATOM	20157	CH	WAT	3257	13.111	-1.111	1.111	1.00	19.21
ATOM	20158	CH	WAT	3258	-12.111	-1.111	2.111	1.00	26.11
ATOM	20159	CH	WAT	3259	5.111	-1.111	5.111	1.00	26.56
ATOM	20160	CH	WAT	3260	-11.111	-1.111	2.111	1.00	23.11
ATOM	20161	CH	WAT	3261	-0.778	1.111	6.111	1.00	22.89
ATOM	20162	CH	WAT	3262	-4.568	-1.111	3.111	1.00	15.03
ATOM	20163	CH	WAT	3263	-9.737	1.111	-14.744	1.00	15.83
ATOM	20164	CH	WAT	3264	-6.639	2.111	4.111	1.00	15.84
ATOM	20165	CH	WAT	3265	14.061	1.111	4.111	1.00	21.75
ATOM	20166	CH	WAT	3266	10.527	-1.111	4.111	1.00	20.69
ATOM	20167	CH	WAT	3267	-0.194	3.111	5.111	1.00	25.86
ATOM	20168	CH	WAT	3268	14.901	-1.111	2.111	1.00	19.90
ATOM	20169	CH	WAT	3269	41.130	-1.111	1.111	1.00	24.37
ATOM	20200	CH	WAT	3270	4.620	-8.727	-6.343	1.00	24.77
ATOM	20201	CH	WAT	3271	15.146	17.451	41.111	1.00	18.87
ATOM	20202	CH	WAT	3272	15.146	11.457	3.111	1.00	18.11

ATCM	20203	OH2	WAT	3273	41.753	-19.624	48.472	1.00	23.10
ATCM	20204	CH2	WAT	3274	4.615	6.859	40.531	1.00	16.54
ATCM	20205	CH2	WAT	3275	31.542	-15.777	29.262	1.00	20.38
ATCM	20206	CH2	WAT	3276	19.527	-11.849	39.254	1.00	15.70
ATCM	20207	CH2	WAT	3277	23.147	-25.760	25.244	1.00	16.58
ATCM	20208	CH2	WAT	3278	-5.916	-49.095	1.777	1.00	29.58
ATCM	20209	CH2	WAT	3279	23.794	-15.430	30.266	1.00	21.24
ATCM	20210	CH2	WAT	3280	-14.122	0.241	-14.027	1.00	21.60
ATCM	20211	CH2	WAT	3281	-31.126	-1.465	48.993	1.00	16.37
ATCM	20212	CH2	WAT	3282	32.781	4.867	20.774	1.00	29.67
ATCM	20213	CH2	WAT	3283	24.781	8.897	31.612	1.00	23.60
ATCM	20214	CH2	WAT	3284	35.424	-3.782	27.906	1.00	20.15
ATCM	20215	CH2	WAT	3285	38.703	-2.932	24.815	1.00	20.31
ATCM	20216	CH2	WAT	3286	18.237	6.043	-10.263	1.00	14.57
ATCM	20217	CH2	WAT	3287	47.281	10.193	65.277	1.00	26.86
ATCM	20218	CH2	WAT	3288	-24.643	-24.851	0.208	1.00	22.77
ATCM	20219	CH2	WAT	3289	10.407	31.777	58.016	1.00	17.87
ATCM	20220	CH2	WAT	3290	26.892	2.468	17.393	1.00	19.04
ATCM	20221	CH2	WAT	3291	-18.654	-1.951	60.026	1.00	21.24
ATCM	20222	CH2	WAT	3292	-11.097	-15.110	22.791	1.00	20.13
ATCM	20223	CH2	WAT	3293	0.777	-6.511	51.033	1.00	24.64
ATCM	20224	CH2	WAT	3294	18.334	-31.077	10.712	1.00	17.70
ATCM	20225	CH2	WAT	3295	-21.811	-28.491	10.148	1.00	21.94
ATCM	20226	CH2	WAT	3296	40.474	-28.547	1.763	1.00	21.60
ATCM	20227	CH2	WAT	3297	0.770	-10.927	61.091	1.00	20.49
ATCM	20228	CH2	WAT	3298	21.104	1.701	14.531	1.00	20.74
ATCM	20229	CH2	WAT	3299	-0.121	22.583	60.051	1.00	20.46
ATCM	20230	CH2	WAT	3300	11.907	1.158	1.451	1.00	16.91
ATCM	20231	CH2	WAT	3301	1.334	-0.984	-0.111	1.00	21.18
ATCM	20232	CH2	WAT	3302	4.032	41.244	10.424	1.00	20.91
ATCM	20233	CH2	WAT	3303	13.441	-21.551	60.004	1.00	18.13
ATCM	20234	CH2	WAT	3304	6.719	21.763	34.079	1.00	25.97
ATCM	20235	CH2	WAT	3305	27.135	-1.831	10.123	1.00	19.74
ATCM	20236	CH2	WAT	3306	-1.734	1.567	51.031	1.00	19.19
ATCM	20237	CH2	WAT	3307	10.800	-20.894	-0.203	1.00	22.13
ATCM	20238	CH2	WAT	3308	34.301	-40.183	10.117	1.00	21.13
ATCM	20239	CH2	WAT	3309	-0.107	-6.814	11.773	1.00	19.58
ATCM	20240	CH2	WAT	3310	-17.630	18.071	10.113	1.00	18.53
ATCM	20241	CH2	WAT	3311	10.334	10.234	40.110	1.00	24.77
ATCM	20242	CH2	WAT	3312	-0.113	11.217	10.673	1.00	26.31
ATCM	20243	CH2	WAT	3313	0.718	-10.231	41.237	1.00	21.03
ATCM	20244	CH2	WAT	3314	38.258	-20.113	0.830	1.00	25.15
ATCM	20245	CH2	WAT	3315	30.231	16.160	10.117	1.00	23.88
ATCM	20246	CH2	WAT	3316	28.491	9.379	0.117	1.00	19.59
ATCM	20247	CH2	WAT	3317	28.289	-6.461	61.180	1.00	26.88
ATCM	20248	CH2	WAT	3318	1.515	36.096	50.072	1.00	18.31
ATCM	20249	CH2	WAT	3319	48.432	11.489	41.531	1.00	23.53
ATCM	20250	CH2	WAT	3320	0.135	-25.323	31.536	1.00	14.42
ATCM	20251	CH2	WAT	3321	30.106	-22.431	0.817	1.00	17.63
ATCM	20252	CH2	WAT	3322	-0.335	-3.853	2.133	1.00	24.67
ATCM	20253	CH2	WAT	3323	34.331	-21.213	38.495	1.00	21.39
ATCM	20254	CH2	WAT	3324	32.032	-14.923	-10.607	1.00	25.32
ATCM	20255	CH2	WAT	3325	-10.339	21.021	-0.632	1.00	27.36
ATCM	20256	CH2	WAT	3326	-30.136	-1.036	10.162	1.00	24.45
ATCM	20257	CH2	WAT	3327	9.532	-32.401	10.159	1.00	23.56
ATCM	20258	CH2	WAT	3328	18.131	15.033	61.336	1.00	19.05
ATCM	20259	CH2	WAT	3329	6.139	-42.113	10.634	1.00	21.98
ATCM	20260	CH2	WAT	3330	-9.132	11.917	31.330	1.00	20.79
ATCM	20261	CH2	WAT	3331	4.631	-10.133	35.136	1.00	20.39
ATCM	20262	CH2	WAT	3332	18.031	10.134	41.133	1.00	19.07
ATCM	20263	CH2	WAT	3333	-17.613	22.732	40.133	1.00	26.38
ATCM	20264	CH2	WAT	3334	10.133	0.133	10.133	1.00	19.13
ATCM	20265	CH2	WAT	3335	10.133	0.133	10.133	1.00	31.13
ATCM	20266	CH2	WAT	3336	0.133	0.133	0.133	1.00	19.13
ATCM	20267	CH2	WAT	3337	10.133	10.133	10.133	1.00	21.13
ATCM	20268	CH2	WAT	3338	10.133	10.133	10.133	1.00	21.13
ATCM	20269	CH2	WAT	3339	10.133	10.133	10.133	1.00	23.14
ATCM	20270	CH2	WAT	3340	-8.131	19.133	00.898	1.00	19.11
ATCM	20271	CH2	WAT	3341	10.133	10.133	10.133	1.00	18.13
ATCM	20272	CH2	WAT	3342	11.111	10.133	10.133	1.00	19.13
ATCM	20273	CH2	WAT	3343	-0.771	10.133	10.133	1.00	19.13
ATCM	20274	CH2	WAT	3344	-16.965	4.174	14.900	1.00	23.48
ATCM	20275	CH2	WAT	3345	19.154	21.926	08.546	1.00	24.61
ATCM	20276	CH2	WAT	3346	-0.565	-0.567	10.532	1.00	17.50
ATCM	20277	CH2	WAT	3347	19.548	-3.441	41.810	1.00	18.14
ATCM	20278	CH2	WAT	3348	3.934	5.094	41.179	1.00	19.65
ATCM	20279	CH2	WAT	3349	24.101	4.713	00.395	1.00	26.04

ATCM	20280	OH2	WAT	3350	9.510	-54.905	26.309	1.00	22.92
ATCM	20281	OH2	WAT	3351	2.738	2.375	54.788	1.00	21.78
ATCM	20282	OH2	WAT	3352	38.200	-7.877	39.235	1.00	17.67
ATCM	20283	OH2	WAT	3353	10.718	14.126	13.818	1.00	21.22
ATCM	20284	OH2	WAT	3354	-1.810	-2.501	-10.761	1.00	32.11
ATCM	20285	OH2	WAT	3355	23.171	20.684	52.484	1.00	21.25
ATCM	20286	OH2	WAT	3356	13.215	35.450	61.583	1.00	2.72
ATCM	20287	OH1	WAT	3357	14.902	-27.854	39.228	1.00	17.88
ATCM	20288	OH1	WAT	3358	17.196	0.708	-19.731	1.00	27.56
ATCM	20289	OH1	WAT	3359	12.894	23.941	72.812	1.00	27.30
ATCM	20290	OH1	WAT	3360	51.803	18.337	55.429	1.00	23.28
ATCM	20291	OH1	WAT	3361	23.951	21.197	38.321	1.00	19.39
ATCM	20292	OH1	WAT	3362	28.231	10.102	25.787	1.00	29.53
ATCM	20293	OH1	WAT	3363	-19.632	-10.100	40.923	1.00	24.00
ATCM	20294	OH1	WAT	3364	0.582	-18.881	70.964	1.00	24.74
ATCM	20295	OH1	WAT	3365	41.630	-6.612	15.791	1.00	21.68
ATCM	20296	OH1	WAT	3366	25.036	-21.034	17.423	1.00	19.61
ATCM	20297	OH1	WAT	3367	20.131	-11.489	18.162	1.00	19.66
ATCM	20298	OH1	WAT	3368	23.621	-39.595	14.156	1.00	17.92
ATCM	20299	OH2	WAT	3369	-28.170	-5.102	46.303	1.00	21.63
ATCM	20300	OH1	WAT	3370	-4.984	11.341	58.931	1.00	26.65
ATCM	20301	OH1	WAT	3371	-11.183	11.137	-10.991	1.00	21.14
ATCM	20302	OH1	WAT	3372	-1.777	10.814	64.951	1.00	27.29
ATCM	20303	OH1	WAT	3373	16.171	-21.014	44.698	1.00	21.19
ATCM	20304	OH1	WAT	3374	-9.815	-19.038	16.373	1.00	17.87
ATCM	20305	OH1	WAT	3375	-24.117	-6.440	10.179	1.00	23.02
ATCM	20306	OH1	WAT	3376	-2.1705	-18.131	62.139	1.00	26.14
ATCM	20307	OH1	WAT	3377	-11.134	0.831	7.109	1.00	24.50
ATCM	20308	OH1	WAT	3378	41.978	-11.341	14.199	1.00	23.08
ATCM	20309	OH1	WAT	3379	-5.147	-13.817	6.890	1.00	21.12
ATCM	20310	OH1	WAT	3380	-4.178	-27.767	19.13	1.00	21.19
ATCM	20311	OH1	WAT	3381	-0.174	-4.844	-10.111	1.00	24.42
ATCM	20312	OH1	WAT	3382	-21.661	-11.167	68.199	1.00	30.13
ATCM	20313	OH1	WAT	3383	-14.706	-12.141	29.139	1.00	20.36
ATCM	20314	OH1	WAT	3384	43.131	2.310	13.131	1.00	21.78
ATCM	20315	OH1	WAT	3385	11.13	3.130	67.811	1.00	20.51
ATCM	20316	OH1	WAT	3386	-11.968	3.811	-15.881	1.00	31.73
ATCM	20317	OH1	WAT	3387	50.135	2.121	42.149	1.00	23.09
ATCM	20318	OH2	WAT	3388	27.687	16.878	20.716	1.00	31.71
ATCM	20319	OH2	WAT	3389	6.178	15.341	7.121	1.00	31.77
ATCM	20320	OH2	WAT	3390	34.681	-21.345	18.101	1.00	18.60
ATCM	20321	OH2	WAT	3391	18.986	-51.130	15.116	1.00	20.16
ATCM	20322	OH2	WAT	3392	-21.079	-4.485	51.041	1.00	20.52
ATCM	20323	OH2	WAT	3393	25.777	-32.629	53.311	1.00	17.81
ATCM	20324	OH2	WAT	3394	3.154	19.145	5.147	1.00	31.14
ATCM	20325	OH2	WAT	3395	14.362	19.351	53.211	1.00	18.96
ATCM	20326	OH2	WAT	3396	24.989	-14.081	20.835	1.00	23.72
ATCM	20327	OH2	WAT	3397	13.110	17.191	38.752	1.00	20.42
ATCM	20328	OH2	WAT	3398	-1.262	-4.195	56.954	1.00	31.48
ATCM	20329	OH2	WAT	3399	0.162	15.994	13.051	1.00	21.19
ATCM	20330	OH2	WAT	3400	14.970	3.846	-18.011	1.00	19.32
ATCM	20331	OH2	WAT	3401	-3.124	15.904	-19.783	1.00	24.92
ATCM	20332	OH2	WAT	3402	-4.119	-6.981	-11.711	1.00	21.64
ATCM	20333	OH2	WAT	3403	0.848	15.931	13.442	1.00	21.96
ATCM	20334	OH2	WAT	3404	-4.394	5.307	18.927	1.00	23.92
ATCM	20335	OH2	WAT	3405	-1.462	13.189	-3.041	1.00	21.36
ATCM	20336	OH2	WAT	3406	21.904	-11.699	19.959	1.00	20.34
ATCM	20337	OH2	WAT	3407	-21.038	4.127	19.671	1.00	21.61
ATCM	20338	OH2	WAT	3408	-1.613	-10.651	5.927	1.00	21.23
ATCM	20339	OH2	WAT	3409	3.133	1.167	42.294	1.00	21.26
ATCM	20340	OH2	WAT	3410	-16.221	-9.667	65.511	1.00	20.52
ATCM	20341	OH2	WAT	3411	-21.467	-4.121	43.316	1.00	21.46
ATCM	20342	OH2	WAT	3412	-21.938	1.741	66.477	1.00	20.96
ATCM	20343	OH2	WAT	3413	1.116	13.954	55.185	1.00	21.07
ATCM	20344	OH2	WAT	3414	-23.235	-31.334	12.076	1.00	20.24
ATCM	20345	OH2	WAT	3415	12.072	13.734	35.664	1.00	23.51
ATCM	20346	OH2	WAT	3416	-12.454	3.743	32.390	1.00	11.67
ATCM	20347	OH2	WAT	3417	-13.447	-6.868	40.520	1.00	21.99
ATCM	20348	OH2	WAT	3418	-5.102	-8.929	44.117	1.00	27.51
ATCM	20349	OH2	WAT	3419	-13.120	-46.912	4.931	1.00	21.66
ATCM	20350	OH2	WAT	3420	13.742	5.329	46.970	1.00	23.56
ATCM	20351	OH2	WAT	3421	14.049	-14.727	21.131	1.00	23.18
ATCM	20352	OH2	WAT	3422	25.532	-33.324	19.891	1.00	25.87
ATCM	20353	OH2	WAT	3423	14.242	4.364	4.891	1.00	26.11
ATCM	20354	OH2	WAT	3424	2.505	-8.983	62.076	1.00	23.05
ATCM	20355	OH2	WAT	3425	6.136	16.131	5.395	1.00	14.87
ATCM	20356	OH2	WAT	3426	2.178	-1.347	1.143	1.00	17.19

ATOM	20357	OH2	WAT	3427	10.084	5.888	54.362	1.00	18.70
ATOM	20358	OH2	WAT	3428	-20.669	-4.854	17.585	1.00	20.63
ATOM	20359	OH2	WAT	3429	16.131	-50.526	20.651	1.00	20.80
ATOM	20360	OH2	WAT	3430	34.810	-10.761	21.863	1.00	20.66
ATOM	20361	OH2	WAT	3431	38.986	-5.089	-12.711	1.00	30.66
ATOM	20362	OH2	WAT	3432	-0.036	6.210	15.429	1.00	21.16
ATOM	20363	OH2	WAT	3433	-5.338	0.253	17.916	1.00	28.50
ATOM	20364	OH2	WAT	3434	-6.451	25.358	65.175	1.00	28.57
ATOM	20365	OH2	WAT	3435	36.283	-20.881	68.135	1.00	21.16
ATOM	20366	OH2	WAT	3436	43.659	-21.885	-1.106	1.00	21.34
ATOM	20367	OH2	WAT	3437	56.092	19.087	34.416	1.00	35.14
ATOM	20368	OH2	WAT	3438	-36.025	-8.525	13.285	1.00	31.59
ATOM	20369	OH2	WAT	3439	-10.846	-10.619	6.123	1.00	21.25
ATOM	20370	OH2	WAT	3440	4.131	-8.601	64.549	1.00	25.99
ATOM	20371	OH2	WAT	3441	16.000	-4.755	12.783	1.00	20.61
ATOM	20372	OH2	WAT	3442	-0.412	21.856	-20.059	1.00	21.29
ATOM	20373	OH2	WAT	3443	-0.879	17.662	4.154	1.00	26.62
ATOM	20374	OH2	WAT	3444	-9.621	-0.559	-0.011	1.00	22.06
ATOM	20375	OH2	WAT	3445	-0.957	1.101	-0.034	1.00	28.07
ATOM	20376	OH2	WAT	3446	-10.646	18.218	5.197	1.00	24.38
ATOM	20377	OH2	WAT	3447	-21.994	1.588	4.152	1.00	24.33
ATOM	20378	OH2	WAT	3448	6.711	-26.886	4.186	1.00	21.57
ATOM	20379	OH2	WAT	3449	-0.017	4.149	1.084	1.00	20.12
ATOM	20380	OH2	WAT	3450	16.130	-54.481	16.617	1.00	19.97
ATOM	20381	OH2	WAT	3451	20.656	-6.317	-10.609	1.00	24.66
ATOM	20382	OH2	WAT	3452	21.235	-6.136	16.691	1.00	18.64
ATOM	20383	OH2	WAT	3453	10.245	1.591	16.819	1.00	21.11
ATOM	20384	OH2	WAT	3454	-10.137	-1.052	26.877	1.00	19.51
ATOM	20385	OH2	WAT	3455	10.138	-15.586	3.161	1.00	18.81
ATOM	20386	OH2	WAT	3456	0.002	-48.884	18.866	1.00	20.83
ATOM	20387	OH2	WAT	3457	10.149	10.484	26.823	1.00	17.12
ATOM	20388	OH2	WAT	3458	0.007	-10.445	8.133	1.00	20.86
ATOM	20389	OH2	WAT	3459	8.000	1.047	16.461	1.00	21.31
ATOM	20390	OH2	WAT	3460	-10.811	10.138	0.689	1.00	24.21
ATOM	20391	OH2	WAT	3461	41.814	-2.131	50.143	1.00	20.16
ATOM	20392	OH2	WAT	3462	-0.031	-0.002	10.668	1.00	20.48
ATOM	20393	OH2	WAT	3463	-0.007	-10.000	8.133	1.00	21.86
ATOM	20394	OH2	WAT	3464	0.008	4.041	11.653	1.00	31.81
ATOM	20395	OH2	WAT	3465	-14.107	1.840	6.827	1.00	18.27
ATOM	20396	OH2	WAT	3466	41.165	1.000	24.133	1.00	20.16
ATOM	20397	OH2	WAT	3467	31.131	-4.001	11.161	1.00	20.88
ATOM	20398	OH2	WAT	3468	14.133	-0.140	-0.044	1.00	31.31
ATOM	20399	OH2	WAT	3469	-1.808	-41.623	1.434	1.00	20.41
ATOM	20400	OH2	WAT	3470	34.724	-31.627	60.285	1.00	31.57
ATOM	20401	OH2	WAT	3471	21.585	-58.814	10.660	1.00	21.80
ATOM	20402	OH2	WAT	3472	24.408	-20.148	44.709	1.00	20.59
ATOM	20403	OH2	WAT	3473	20.606	-40.653	21.511	1.00	20.17
ATOM	20404	OH2	WAT	3474	12.811	-19.122	34.697	1.00	17.19
ATOM	20405	OH2	WAT	3475	21.718	14.837	1.514	1.00	24.40
ATOM	20406	OH2	WAT	3476	22.441	-0.052	64.930	1.00	24.41
ATOM	20407	OH2	WAT	3477	24.448	30.015	13.933	1.00	26.05
ATOM	20408	OH2	WAT	3478	41.135	10.938	19.636	1.00	31.98
ATOM	20409	OH2	WAT	3479	20.286	-30.473	61.570	1.00	20.19
ATOM	20410	OH2	WAT	3480	18.336	-10.073	11.711	1.00	20.18
ATOM	20411	OH2	WAT	3481	-11.315	20.032	61.638	1.00	40.06
ATOM	20412	OH2	WAT	3482	31.625	-26.078	39.827	1.00	33.13
ATOM	20413	OH2	WAT	3483	-3.006	30.061	7.053	1.00	38.60
ATOM	20414	OH2	WAT	3484	0.005	-33.535	33.001	1.00	31.29
ATOM	20415	OH2	WAT	3485	1.005	-31.033	10.031	1.00	11.18
ATOM	20416	OH2	WAT	3486	17.284	-13.000	-21.519	1.00	28.37
ATOM	20417	OH2	WAT	3487	7.594	28.177	40.806	1.00	21.25
ATOM	20418	OH2	WAT	3488	-4.436	20.075	21.013	1.00	18.32
ATOM	20419	OH2	WAT	3489	29.474	3.135	1.137	1.00	32.63
ATOM	20420	OH2	WAT	3490	0.002	20.041	7.100	1.00	22.13
ATOM	20421	OH2	WAT	3491	0.003	-7.037	5.034	1.00	28.64
ATOM	20422	OH2	WAT	3492	32.433	-21.031	-10.046	1.00	20.63
ATOM	20423	OH2	WAT	3493	7.930	-16.894	18.830	1.00	20.22
ATOM	20424	OH2	WAT	3494	-4.506	-24.096	3.635	1.00	18.30
ATOM	20425	OH2	WAT	3495	19.201	-19.687	36.887	1.00	24.52
ATOM	20426	OH2	WAT	3496	-1.507	19.729	17.639	1.00	19.45
ATOM	20427	OH2	WAT	3497	-29.812	-4.305	64.317	1.00	19.66
ATOM	20428	OH2	WAT	3498	-26.364	8.327	-0.492	1.00	23.78
ATOM	20429	OH2	WAT	3499	3.131	-15.186	54.400	1.00	26.52
ATOM	20430	OH2	WAT	3500	-4.211	28.797	70.359	1.00	29.23
ATOM	20431	OH2	WAT	3501	23.091	-1.319	22.141	1.00	27.87
ATOM	20432	OH2	WAT	3502	53.326	7.167	46.155	1.00	28.40
ATOM	20433	OH2	WAT	3503	47.807	11.344	54.130	1.00	25.03

ATCM	20434	OH2	WAT	3504	-7.826	15.601	26.509	1.00	22.64
ATCM	20435	OH2	WAT	3505	4.797	-16.467	-3.276	1.00	30.07
ATCM	20436	OH2	WAT	3506	31.644	-6.523	-13.027	1.00	21.55
ATCM	20437	OH2	WAT	3507	21.645	31.025	60.647	1.00	17.86
ATCM	20438	OH2	WAT	3508	14.591	8.814	50.006	1.00	23.64
ATCM	20439	OH2	WAT	3509	-17.172	4.640	49.766	1.00	23.89
ATCM	20440	OH2	WAT	3510	6.062	-26.464	52.728	1.00	16.15
ATCM	20441	OH2	WAT	3511	5.200	26.208	12.471	1.00	34.11
ATCM	20442	OH2	WAT	3512	16.071	0.370	-25.723	1.00	15.19
ATCM	20443	OH2	WAT	3513	32.797	-0.160	48.448	1.00	10.41
ATCM	20444	OH2	WAT	3514	-16.216	1.768	0.259	1.00	28.90
ATCM	20445	OH2	WAT	3515	-5.097	2.007	1.772	1.00	19.92
ATCM	20446	OH2	WAT	3516	-14.599	-28.368	53.744	1.00	48.61
ATCM	20447	OH2	WAT	3517	1.156	-15.041	9.961	1.00	24.89
ATCM	20448	OH2	WAT	3518	29.942	12.701	27.664	1.00	32.11
ATCM	20449	OH2	WAT	3519	10.355	22.487	26.147	1.00	14.14
ATCM	20450	OH2	WAT	3520	11.156	-14.134	75.415	1.00	15.84
ATCM	20451	OH2	WAT	3521	38.160	-15.116	56.012	1.00	22.85
ATCM	20452	OH2	WAT	3522	14.049	-24.017	2.169	1.00	19.17
ATCM	20453	OH2	WAT	3523	36.847	8.880	16.719	1.00	13.17
ATCM	20454	OH2	WAT	3524	-0.158	-8.716	14.134	1.00	17.11
ATCM	20455	OH2	WAT	3525	17.453	-26.604	12.051	1.00	14.89
ATCM	20456	OH2	WAT	3526	-0.664	-51.966	15.851	1.00	18.83
ATCM	20457	OH2	WAT	3527	-9.459	-21.908	19.841	1.00	18.08
ATCM	20458	OH2	WAT	3528	19.511	-4.894	10.489	1.00	27.09
ATCM	20459	OH2	WAT	3529	14.158	-11.932	9.156	1.00	25.07
ATCM	20460	OH2	WAT	3530	-14.703	20.484	38.717	1.00	18.81
ATCM	20461	OH2	WAT	3531	-7.105	1.116	-13.154	1.00	18.82
ATCM	20462	OH2	WAT	3532	71.888	-21.515	46.841	1.00	17.16
ATCM	20463	OH2	WAT	3533	-6.224	-2.915	30.963	1.00	17.28
ATCM	20464	OH2	WAT	3534	13.251	23.815	68.702	1.00	11.75
ATCM	20465	OH2	WAT	3535	-13.136	-41.991	8.148	1.00	12.30
ATCM	20466	OH2	WAT	3536	-3.861	29.889	19.235	1.00	12.35
ATCM	20467	OH2	WAT	3537	42.444	-25.110	59.778	1.00	10.29
ATCM	20468	OH2	WAT	3538	-0.684	13.910	69.603	1.00	16.93
ATCM	20469	OH2	WAT	3539	-1.141	19.117	14.623	1.00	10.31
ATCM	20470	OH2	WAT	3540	-5.666	-28.177	31.523	1.00	16.13
ATCM	20471	OH2	WAT	3541	37.481	-2.816	44.597	1.00	23.36
ATCM	20472	OH2	WAT	3542	-4.059	-1.015	-0.721	1.00	31.72
ATCM	20473	OH2	WAT	3543	42.257	-3.985	48.787	1.00	11.34
ATCM	20474	OH2	WAT	3544	16.003	15.315	17.335	1.00	27.61
ATCM	20475	OH2	WAT	3545	-42.199	21.117	33.789	1.00	14.11
ATCM	20476	OH2	WAT	3546	43.170	11.118	43.176	1.00	11.11
ATCM	20477	OH2	WAT	3547	8.127	-56.815	24.803	1.00	18.10
ATCM	20478	OH2	WAT	3548	20.613	33.134	62.910	1.00	26.19
ATCM	20479	OH2	WAT	3549	25.111	15.489	30.152	1.00	27.79
ATCM	20480	OH2	WAT	3550	45.970	21.490	26.630	1.00	8.197
ATCM	20481	OH2	WAT	3551	2.048	-27.118	63.747	1.00	11.51
ATCM	20482	OH2	WAT	3552	-5.000	1.642	-22.194	1.00	16.73
ATCM	20483	OH2	WAT	3553	40.494	-30.156	61.314	1.00	31.19
ATCM	20484	OH2	WAT	3554	21.635	29.613	51.906	1.00	21.47
ATCM	20485	OH2	WAT	3555	20.234	18.128	51.367	1.00	21.61
ATCM	20486	OH2	WAT	3556	6.120	8.110	18.848	1.00	11.10
ATCM	20487	OH2	WAT	3557	-23.460	-31.144	23.786	1.00	21.74
ATCM	20488	OH2	WAT	3558	31.694	-28.168	52.744	1.00	28.76
ATCM	20489	OH2	WAT	3559	-6.779	24.148	69.702	1.00	21.63
ATCM	20490	OH2	WAT	3560	-13.553	-13.119	5.954	1.00	31.16
ATCM	20491	OH2	WAT	3561	-11.739	2.111	48.172	1.00	21.41
ATCM	20492	OH2	WAT	3562	25.341	-1.866	41.178	1.00	31.71
ATCM	20493	OH2	WAT	3563	-19.840	8.117	11.289	1.00	31.93
ATCM	20494	OH2	WAT	3564	35.401	-16.897	38.350	1.00	21.60
ATCM	20495	OH2	WAT	3565	5.379	11.111	43.101	1.00	31.53
ATCM	20496	OH2	WAT	3566	-12.663	21.113	11.586	1.00	21.87
ATCM	20497	OH2	WAT	3567	7.132	24.119	73.739	1.00	26.21
ATCM	20498	OH2	WAT	3568	13.133	8.110	38.157	1.00	31.71
ATCM	20499	OH2	WAT	3569	-1.126	31.117	44.749	1.00	21.61
ATCM	20500	OH2	WAT	3570	17.131	-44.125	29.754	1.00	21.47
ATCM	20501	OH2	WAT	3571	54.364	-4.113	52.668	1.00	26.73
ATCM	20502	OH2	WAT	3572	6.524	5.110	51.983	1.00	29.48
ATCM	20503	OH2	WAT	3573	2.845	-17.113	27.691	1.00	23.94
ATCM	20504	OH2	WAT	3574	-16.503	21.116	-12.994	1.00	27.16
ATCM	20505	OH2	WAT	3575	43.324	31.118	62.148	1.00	31.25
ATCM	20506	OH2	WAT	3576	13.809	17.114	12.677	1.00	31.22
ATCM	20507	OH2	WAT	3577	1.416	-10.111	67.164	1.00	15.45
ATCM	20508	OH2	WAT	3578	23.429	22.117	10.975	1.00	31.50
ATCM	20509	OH2	WAT	3579	18.146	5.110	41.198	1.00	17.60
ATCM	20510	OH2	WAT	3580	11.116	14.118	8.111	1.00	11.18

ATOM	20511	OH2	WAT	3581	9.784	-6.629	15.625	1.00	15.08
ATOM	20512	OH2	WAT	3582	5.497	-17.436	23.138	1.00	25.09
ATOM	20513	OH2	WAT	3583	5.991	6.071	43.749	1.00	15.66
ATOM	20514	OH2	WAT	3584	3.189	-11.871	38.573	1.00	16.45
ATOM	20515	OH2	WAT	3585	-9.207	-13.212	31.665	1.00	15.45
ATOM	20516	OH2	WAT	3586	13.065	-15.561	35.956	1.00	21.15
ATOM	20517	OH2	WAT	3587	25.585	15.736	21.975	1.00	26.75
ATOM	20518	OH2	WAT	3588	21.890	2.770	17.740	1.00	25.84
ATOM	20519	OH2	WAT	3589	5.607	17.572	31.827	1.00	19.68
ATOM	20520	OH2	WAT	3590	5.176	-14.520	35.798	1.00	29.57
ATOM	20521	OH2	WAT	3591	-15.855	19.020	-15.407	1.00	20.14
ATOM	20522	OH2	WAT	3592	23.420	11.927	35.766	1.00	18.41
ATOM	20523	OH2	WAT	3593	-3.566	-1.525	-6.831	1.00	34.17
ATOM	20524	OH2	WAT	3594	24.320	2.280	42.361	1.00	24.09
ATOM	20525	OH2	WAT	3595	13.083	6.614	44.619	1.00	25.35
ATOM	20526	OH2	WAT	3596	15.145	1.171	-17.886	1.00	21.75
ATOM	20527	OH2	WAT	3597	24.371	9.943	24.117	1.00	21.56
ATOM	20528	OH2	WAT	3598	16.763	-1.795	47.475	1.00	21.89
ATOM	20529	OH2	WAT	3599	0.414	-0.252	11.154	1.00	18.76
ATOM	20530	OH2	WAT	3600	-4.707	-10.516	27.179	1.00	25.57
ATOM	20531	OH2	WAT	3601	-6.183	-1.175	45.158	1.00	25.16
ATOM	20532	OH2	WAT	3602	23.187	17.179	24.059	1.00	25.89
ATOM	20533	OH2	WAT	3603	17.551	-10.772	13.182	1.00	21.06
ATOM	20534	OH2	WAT	3604	21.697	8.736	10.500	1.00	25.14
ATOM	20535	OH2	WAT	3605	13.507	5.111	48.175	1.00	25.87
ATOM	20536	OH2	WAT	3606	3.127	5.134	48.458	1.00	25.65
ATOM	20537	OH2	WAT	3607	3.558	-10.157	17.856	1.00	16.25
ATOM	20538	OH2	WAT	3608	4.111	-14.112	15.885	1.00	35.12
ATOM	20539	OH2	WAT	3609	43.617	26.555	65.118	1.00	35.16
ATOM	20540	OH2	WAT	3610	13.157	-2.577	44.457	1.00	19.58
ATOM	20541	OH2	WAT	3611	11.151	-17.575	16.776	1.00	25.53
ATOM	20542	OH2	WAT	3612	34.155	-6.500	-15.887	1.00	24.62
ATOM	20543	OH2	WAT	3613	6.448	23.130	35.774	1.00	20.57
ATOM	20544	OH2	WAT	3614	23.155	-3.006	65.151	1.00	23.65
ATOM	20545	OH2	WAT	3615	-13.893	-21.511	21.558	1.00	25.59
ATOM	20546	OH2	WAT	3616	29.333	-23.602	65.157	1.00	25.58
ATOM	20547	OH2	WAT	3617	15.151	-10.113	45.155	1.00	35.16
ATOM	20548	OH2	WAT	3618	15.155	-10.159	15.155	1.00	25.58
ATOM	20549	OH2	WAT	3619	15.155	-11.117	35.154	1.00	25.55
ATOM	20550	OH2	WAT	3620	45.155	-14.558	55.155	1.00	25.55
ATOM	20551	OH2	WAT	3621	25.154	5.154	55.152	1.00	25.55
ATOM	20552	OH2	WAT	3622	25.152	-24.156	15.155	1.00	24.95
ATOM	20553	OH2	WAT	3623	6.154	-20.153	45.158	1.00	16.17
ATOM	20554	OH2	WAT	3624	5.155	4.158	55.158	1.00	26.67
ATOM	20555	OH2	WAT	3625	5.156	-14.611	35.157	1.00	25.86
ATOM	20556	OH2	WAT	3626	-4.157	-1.855	15.151	1.00	35.13
ATOM	20557	OH2	WAT	3627	16.155	4.437	45.156	1.00	15.72
ATOM	20558	OH2	WAT	3628	15.151	-4.156	5.156	1.00	22.73
ATOM	20559	OH2	WAT	3629	35.159	-10.157	15.150	1.00	20.92
ATOM	20560	OH2	WAT	3630	-15.159	-40.151	24.157	1.00	25.11
ATOM	20561	OH2	WAT	3631	25.151	-15.153	35.155	1.00	27.11
ATOM	20562	OH2	WAT	3632	15.151	-3.151	44.153	1.00	15.53
ATOM	20563	OH2	WAT	3633	5.1578	-21.155	65.151	1.00	27.31
ATOM	20564	OH2	WAT	3634	-25.159	-0.156	15.152	1.00	18.54
ATOM	20565	OH2	WAT	3635	-15.151	-43.153	24.154	1.00	26.20
ATOM	20566	OH2	WAT	3636	15.157	-11.153	15.153	1.00	15.15
ATOM	20567	OH2	WAT	3637	-4.154	-4.154	15.153	1.00	35.15
ATOM	20568	OH2	WAT	3638	-1.155	3.155	55.155	1.00	15.77
ATOM	20569	OH2	WAT	3639	-4.153	-3.151	44.154	1.00	18.73
ATOM	20570	OH2	WAT	3640	15.153	5.153	-15.153	1.00	54.150
ATOM	20571	OH2	WAT	3641	3.153	-14.152	-15.153	1.00	13.21
ATOM	20572	OH2	WAT	3642	-2.155	-12.154	5.153	1.00	14.15
ATOM	20573	OH2	WAT	3643	13.156	22.157	32.154	1.00	17.43
ATOM	20574	OH2	WAT	3644	13.153	24.157	53.153	1.00	17.43
ATOM	20575	OH2	WAT	3645	3.155	-31.158	26.151	1.00	10.85
ATOM	20576	OH2	WAT	3646	0.153	-7.151	13.155	1.00	15.23
ATOM	20577	OH2	WAT	3647	-2.150	3.152	9.157	1.00	22.15
ATOM	20578	OH2	WAT	3648	-1.154	-12.159	11.156	1.00	34.99
ATOM	20579	OH2	WAT	3649	-7.157	-7.154	19.157	1.00	18.06
ATOM	20580	OH2	WAT	3650	9.153	-23.159	54.151	1.00	13.97
ATOM	20581	OH2	WAT	3651	5.152	-14.157	36.150	1.00	26.63
ATOM	20582	OH2	WAT	3652	14.154	-2.156	13.155	1.00	10.83
ATOM	20583	OH2	WAT	3653	-1.153	3.151	-18.153	1.00	25.64
ATOM	20584	OH2	WAT	3654	-2.153	3.153	24.159	1.00	22.97
ATOM	20585	OH2	WAT	3655	5.158	-19.164	21.154	1.00	24.77
ATOM	20586	OH2	WAT	3656	11.153	1.158	20.177	1.00	34.55
ATOM	20587	OH2	WAT	3657	40.155	-2.155	22.155	1.00	18.45

ATOM	20588	CH2	WAT	3658	2.870	-32.022	8.417	1.00	26.65
ATOM	20589	CH2	WAT	3659	16.544	-28.551	16.087	1.00	34.40
ATOM	20590	CH2	WAT	3660	-6.861	-27.077	47.127	1.00	23.70
ATOM	20591	CH2	WAT	3661	11.244	-12.961	12.757	1.00	21.21
ATOM	20592	CH2	WAT	3662	23.954	13.018	30.417	1.00	26.23
ATOM	20593	CH2	WAT	3663	-16.483	0.666	27.530	1.00	23.59
ATOM	20594	CH2	WAT	3664	29.982	-28.810	48.323	1.00	25.51
ATOM	20595	CH2	WAT	3665	-17.110	7.033	13.860	1.00	22.41
ATOM	20596	CH2	WAT	3666	1.861	-15.312	29.876	1.00	24.68
ATOM	20597	CH2	WAT	3667	6.562	-5.396	11.125	1.00	29.49
ATOM	20598	CH2	WAT	3668	46.965	1.491	23.229	1.00	29.41
ATOM	20599	CH2	WAT	3669	-32.090	-8.170	19.323	1.00	30.01
ATOM	20600	CH2	WAT	3670	27.927	-19.385	47.561	1.00	22.22
ATOM	20601	CH2	WAT	3671	-22.121	17.236	1.786	1.00	28.58
ATOM	20602	CH2	WAT	3672	31.160	-44.655	11.611	1.00	34.26
ATOM	20603	CH2	WAT	3673	-13.866	3.250	38.529	1.00	29.51
ATOM	20604	CH2	WAT	3674	-27.493	-25.257	20.569	1.00	36.53
ATOM	20605	CH2	WAT	3675	-8.721	-1.581	38.817	1.00	19.08
ATOM	20606	CH2	WAT	3676	26.431	-3.056	54.541	1.00	24.44
ATOM	20607	CH2	WAT	3677	1.251	-13.634	1.599	1.00	17.98
ATOM	20608	CH2	WAT	3678	8.031	-34.813	1.637	1.00	1.51
ATOM	20609	CH2	WAT	3679	11.111	-19.315	1.333	1.00	16.19
ATOM	20610	CH2	WAT	3680	21.121	8.443	1.362	1.00	12.90
ATOM	20611	CH2	WAT	3681	51.144	1.111	61.381	1.00	15.17
ATOM	20612	CH2	WAT	3682	-1.100	-41.815	1.055	1.00	11.57
ATOM	20613	CH2	WAT	3683	20.119	-13.730	38.254	1.00	29.71
ATOM	20614	CH2	WAT	3684	-9.688	11.081	58.381	1.00	15.91
ATOM	20615	CH2	WAT	3685	26.125	-29.136	18.862	1.00	27.11
ATOM	20616	CH2	WAT	3686	39.087	-41.118	17.856	1.00	26.62
ATOM	20617	CH2	WAT	3687	48.903	-7.000	48.151	1.00	26.60
ATOM	20618	CH2	WAT	3688	-17.101	2.383	1.482	1.00	22.76
ATOM	20619	CH2	WAT	3689	31.123	-26.717	18.171	1.00	27.64
ATOM	20620	CH2	WAT	3690	37.111	-8.387	-17.581	1.00	30.40
ATOM	20621	CH2	WAT	3691	16.121	10.165	11.347	1.00	22.49
ATOM	20622	CH2	WAT	3692	36.164	-25.553	21.441	1.00	27.11
ATOM	20623	CH2	WAT	3693	27.134	-32.147	61.678	1.00	26.40
ATOM	20624	CH2	WAT	3694	11.161	-14.134	1.862	1.00	21.15
ATOM	20625	CH2	WAT	3695	-27.181	-14.738	48.643	1.00	24.78
ATOM	20626	CH2	WAT	3696	3.118	-51.146	24.627	1.00	25.64
ATOM	20627	CH2	WAT	3697	-23.191	-2.113	24.135	1.00	26.83
ATOM	20628	CH2	WAT	3698	33.137	-23.133	-9.121	1.00	31.11
ATOM	20629	CH2	WAT	3699	-4.133	3.116	1.392	1.00	28.14
ATOM	20630	CH2	WAT	3700	-25.187	-17.141	57.136	1.00	24.02
ATOM	20631	CH2	WAT	3701	-24.191	-8.019	27.571	1.00	30.46
ATOM	20632	CH2	WAT	3702	-19.143	6.146	47.329	1.00	25.78
ATOM	20633	CH2	WAT	3703	-23.123	14.181	1.427	1.00	24.16
ATOM	20634	CH2	WAT	3704	18.100	41.181	30.190	1.00	31.05
ATOM	20635	CH2	WAT	3705	-3.125	23.180	-18.194	1.00	41.88
ATOM	20636	CH2	WAT	3706	3.176	7.111	12.165	1.00	24.15
ATOM	20637	CH2	WAT	3707	22.147	16.738	35.131	1.00	26.10
ATOM	20638	CH2	WAT	3708	22.116	19.514	24.162	1.00	29.15
ATOM	20639	CH2	WAT	3709	21.660	-1.665	83.178	1.00	28.17
ATOM	20640	CH2	WAT	3710	47.114	-13.167	1.341	1.00	26.15
ATOM	20641	CH2	WAT	3711	31.187	-27.134	41.147	1.00	27.18
ATOM	20642	CH2	WAT	3712	-5.662	17.131	31.133	1.00	24.13
ATOM	20643	CH2	WAT	3713	-2.126	-13.136	51.154	1.00	27.14
ATOM	20644	CH2	WAT	3714	27.138	-26.133	61.181	1.00	25.11
ATOM	20645	CH2	WAT	3715	-1.140	15.112	31.141	1.00	29.18
ATOM	20646	CH2	WAT	3716	4.112	25.119	51.141	1.00	32.15
ATOM	20647	CH2	WAT	3717	1.117	-9.111	-13.143	1.00	18.13
ATOM	20648	CH2	WAT	3718	-18.119	-9.112	11.111	1.00	24.14
ATOM	20649	CH2	WAT	3719	27.117	-8.114	1.115	1.00	21.11
ATOM	20650	CH2	WAT	3720	-4.125	9.114	51.161	1.00	23.12
ATOM	20651	CH2	WAT	3721	31.102	-40.114	43.171	1.00	34.18
ATOM	20652	CH2	WAT	3722	33.178	-36.111	11.115	1.00	28.17
ATOM	20653	CH2	WAT	3723	11.119	-20.112	13.111	1.00	18.19
ATOM	20654	CH2	WAT	3724	-15.118	26.111	46.101	1.00	33.14
ATOM	20655	CH2	WAT	3725	14.111	10.111	19.146	1.00	39.12
ATOM	20656	CH2	WAT	3726	20.119	-23.116	76.184	1.00	28.16
ATOM	20657	CH2	WAT	3727	12.100	-30.111	11.114	1.00	41.10
ATOM	20658	CH2	WAT	3728	0.114	-28.112	61.111	1.00	28.19
ATOM	20659	CH2	WAT	3729	19.113	-30.116	4.119	1.00	24.14
ATOM	20660	CH2	WAT	3730	-17.117	24.115	48.180	1.00	28.17
ATOM	20661	CH2	WAT	3731	11.123	23.112	66.187	1.00	26.17
ATOM	20662	CH2	WAT	3732	6.114	10.111	79.181	1.00	30.19
ATOM	20663	CH2	WAT	3733	13.114	4.111	47.181	1.00	24.14
ATOM	20664	CH2	WAT	3734	27.114	0.111	36.181	1.00	31.10

ATCM	20665	OH2	WAT	3735	20.794	11.104	12 321	1.00	27.55
ATCM	20666	OH2	WAT	3736	51.255	16.589	59 899	1.00	30.84
ATCM	20667	OH2	WAT	3737	22.183	-14.735	24 243	1.00	28.02
ATCM	20668	OH2	WAT	3738	44.096	-11.762	13 654	1.00	28.13
ATCM	20669	OH2	WAT	3739	18.453	-23.992	49 772	1.00	32.67
ATCM	20670	OH2	WAT	3740	10.967	16.582	34 278	1.00	31.80
ATCM	20671	OH2	WAT	3741	-9.858	9.583	20 327	1.00	29.75
ATCM	20672	OH2	WAT	3742	0.898	42.464	5 444	1.00	33.16
ATCM	20673	OH2	WAT	3743	-1.902	-29.127	37 639	1.00	23.75
ATCM	20674	OH2	WAT	3744	36.118	-24.732	33 177	1.00	41.37
ATCM	20675	OH2	WAT	3745	3.115	7.122	37 485	1.00	22.60
ATCM	20676	OH2	WAT	3746	-10.961	3.269	51 233	1.00	27.65
ATCM	20677	OH2	WAT	3747	52.348	17.944	49.348	1.00	27.14
ATCM	20678	OH2	WAT	3748	7.608	22.178	51.653	1.00	46.12
ATCM	20679	OH2	WAT	3749	20.204	-34.717	27.750	1.00	24.03
ATCM	20680	OH2	WAT	3750	12.504	19.874	31.976	1.00	23.45
ATCM	20681	OH2	WAT	3751	-2.814	-25.547	36.512	1.00	26.02
ATCM	20682	OH2	WAT	3752	47.147	16.831	44.537	1.00	26.65
ATCM	20683	OH2	WAT	3753	12.890	-20.419	44.634	1.00	25.81
ATCM	20684	OH2	WAT	3754	-2.861	-9.765	8.557	1.00	30.58
ATCM	20685	OH2	WAT	3755	22.813	52.606	59.195	1.00	32.34
ATCM	20686	OH2	WAT	3756	12.105	13.113	16.141	1.00	26.08
ATCM	20687	OH2	WAT	3757	-10.479	29.127	63.971	1.00	31.36
ATCM	20688	OH2	WAT	3758	4.008	-13.116	70.185	1.00	32.73
ATCM	20689	OH2	WAT	3759	-2.558	-23.729	1.641	1.00	40.40
ATCM	20690	OH2	WAT	3760	-2.873	16.725	21.573	1.00	22.16
ATCM	20691	OH2	WAT	3761	20.208	-25.918	42.563	1.00	11.87
ATCM	20692	OH2	WAT	3762	11.003	24.135	46.635	1.00	23.18
ATCM	20693	OH2	WAT	3763	52.347	-5.815	60.211	1.00	25.08
ATCM	20694	OH2	WAT	3764	1.277	18.438	6.878	1.00	37.34
ATCM	20695	OH2	WAT	3765	3.140	-13.641	19.268	1.00	22.80
ATCM	20696	OH2	WAT	3766	26.728	14.581	21.816	1.00	36.76
ATCM	20697	OH2	WAT	3767	-2.878	25.111	-7.103	1.00	22.61
ATCM	20698	OH2	WAT	3768	42.106	1.1347	3.585	1.00	36.19
ATCM	20699	OH2	WAT	3769	-2.117	-25.832	48.916	1.00	39.40
ATCM	20700	OH2	WAT	3770	6.878	14.161	20.876	1.00	22.15
ATCM	20701	OH2	WAT	3771	22.000	27.580	29.718	1.00	29.81
ATCM	20702	OH2	WAT	3772	-3.127	-21.166	29.614	1.00	31.77
ATCM	20703	OH2	WAT	3773	-24.088	-19.889	26.441	1.00	23.65
ATCM	20704	OH2	WAT	3774	1.768	23.265	64.636	1.00	43.14
ATCM	20705	OH2	WAT	3775	-21.830	-2.210	12.911	1.00	33.10
ATCM	20706	OH2	WAT	3776	36.880	-23.014	23.538	1.00	21.58
ATCM	20707	OH2	WAT	3777	34.806	-31.558	17.185	1.00	35.12
ATCM	20708	OH2	WAT	3778	12.682	27.171	37.317	1.00	34.17
ATCM	20709	OH2	WAT	3779	26.988	8.717	7.225	1.00	21.82
ATCM	20710	OH2	WAT	3780	24.898	12.935	2.743	1.00	28.45
ATCM	20711	OH2	WAT	3781	3.098	41.207	8.799	1.00	21.48
ATCM	20712	OH2	WAT	3782	-19.758	-19.615	50.413	1.00	33.48
ATCM	20713	OH2	WAT	3783	41.041	7.501	10.319	1.00	32.40
ATCM	20714	OH2	WAT	3784	38.647	-37.049	26.470	1.00	27.42
ATCM	20715	OH2	WAT	3785	28.113	-10.501	38.607	1.00	13.44
ATCM	20716	OH2	WAT	3786	24.135	13.567	2.812	1.00	13.67
ATCM	20717	OH2	WAT	3787	41.018	-5.644	6.389	1.00	32.77
ATCM	20718	OH2	WAT	3788	1.927	13.217	17.887	1.00	23.75
ATCM	20719	OH2	WAT	3789	0.965	-39.198	5.123	1.00	40.67
ATCM	20720	OH2	WAT	3790	11.619	-2.645	49.001	1.00	13.41
ATCM	20721	OH2	WAT	3791	24.007	-41.765	4.983	1.00	29.10
ATCM	20722	OH2	WAT	3792	18.438	28.346	27.654	1.00	16.37
ATCM	20723	OH2	WAT	3793	2.863	-52.758	24.049	1.00	15.61
ATCM	20724	OH2	WAT	3794	-1.116	19.596	37.377	1.00	17.30
ATCM	20725	OH2	WAT	3795	31.200	-42.734	24.100	1.00	17.40
ATCM	20726	OH2	WAT	3796	3.656	6.892	17.820	1.00	19.61
ATCM	20727	OH2	WAT	3797	31.924	-21.245	-11.957	1.00	16.01
ATCM	20728	OH2	WAT	3798	-23.350	8.184	62.170	1.00	16.98
ATCM	20729	OH2	WAT	3799	21.818	5.515	19.692	1.00	30.34
ATCM	20730	OH2	WAT	800	3.144	31.952	19.994	1.00	19.09
ATCM	20731	OH2	WAT	801	11.215	-4.478	10.504	1.00	16.27
ATCM	20732	OH2	WAT	802	17.155	28.856	49.985	1.00	32.00
ATCM	20733	OH2	WAT	803	30.716	21.709	36.363	1.00	33.86
ATCM	20734	OH2	WAT	804	14.822	6.385	18.289	1.00	16.93
ATCM	20735	OH2	WAT	805	40.375	26.198	57.363	1.00	33.33
ATCM	20736	OH2	WAT	806	18.733	19.457	8.767	1.00	34.40
ATCM	20737	OH2	WAT	807	46.737	-11.310	5.258	1.00	33.73
ATCM	20738	OH2	WAT	808	6.196	37.101	65.886	1.00	25.32
ATCM	20739	OH2	WAT	809	33.898	16.337	34.979	1.00	25.93
ATCM	20740	OH2	WAT	810	-29.017	3.135	18.764	1.00	34.73
ATCM	20741	OH2	WAT	811	5.143	4.181	14.856	1.00	30.13

ATOM	20742	OH2	WAT	3813	7.988	-3.484	64.242	1.00	31.97
ATOM	20743	OH2	WAT	3813	5.432	-9.598	10.054	1.00	29.09
ATOM	20744	OH2	WAT	3814	19.244	-6.256	-9.064	1.00	30.91
ATOM	20745	OH2	WAT	3815	43.635	-21.259	49.737	1.00	28.61
ATOM	20746	OH2	WAT	3816	-5.313	-6.920	37.151	1.00	29.91
ATOM	20747	OH2	WAT	3817	4.564	24.582	-5.136	1.00	32.01
ATOM	20748	OH2	WAT	3818	10.510	-2.740	-26.086	1.00	31.31
ATOM	20749	OH2	WAT	3819	62.145	14.377	25.314	1.00	40.41
ATOM	20750	OH2	WAT	3820	9.862	-15.964	27.552	1.00	29.69
ATOM	20751	OH2	WAT	3821	-0.787	-50.398	19.753	1.00	33.87
ATOM	20752	OH2	WAT	3822	2.304	-6.541	19.537	1.00	31.29
ATOM	20753	OH2	WAT	3823	41.519	-23.055	-7.279	1.00	42.13
ATOM	20754	OH2	WAT	3824	16.162	-20.002	75.171	1.00	26.47
ATOM	20755	OH2	WAT	3825	10.546	-21.377	-1.968	1.00	26.49
ATOM	20756	OH2	WAT	3826	-11.694	-2.711	34.637	1.00	29.99
ATOM	20757	OH2	WAT	3827	14.382	-28.322	57.140	1.00	41.11
ATOM	20758	OH2	WAT	3828	33.815	-15.624	25.791	1.00	26.84
ATOM	20759	OH2	WAT	3829	-10.821	-0.821	-4.973	1.00	24.13
ATOM	20760	OH2	WAT	3830	2.079	-13.178	-20.561	1.00	39.57
ATOM	20761	OH2	WAT	3831	-1.423	-43.194	30.133	1.00	25.13
ATOM	20762	OH2	WAT	3832	16.519	-33.833	30.133	1.00	25.13
ATOM	20763	OH2	WAT	3833	17.111	-32.897	75.171	1.00	40.41
ATOM	20764	OH2	WAT	3834	-2.872	-23.802	25.133	1.00	30.13
ATOM	20765	OH2	WAT	3835	18.475	-51.085	15.107	1.00	34.11
ATOM	20766	OH2	WAT	3836	41.866	-20.963	57.140	1.00	25.13
ATOM	20767	OH2	WAT	3837	-2.432	-1.152	30.133	1.00	29.11
ATOM	20768	OH2	WAT	3838	-17.133	-13.842	20.133	1.00	16.11
ATOM	20769	OH2	WAT	3839	33.941	-15.177	25.133	1.00	25.13
ATOM	20770	OH2	WAT	3840	-17.547	-18.173	-10.133	1.00	24.11
ATOM	20771	OH2	WAT	3841	-11.739	-21.678	15.133	1.00	18.13
ATOM	20772	OH2	WAT	3842	-1.775	-31.809	50.133	1.00	19.13
ATOM	20773	OH2	WAT	3843	26.915	-23.472	40.133	1.00	21.13
ATOM	20774	OH2	WAT	3844	13.649	-18.972	-4.133	1.00	18.13
ATOM	20775	OH2	WAT	3845	-1.764	-33.534	50.133	1.00	34.13
ATOM	20776	OH2	WAT	3846	49.413	-2.030	50.133	1.00	14.13
ATOM	20777	OH2	WAT	3847	-0.138	-1.134	1.133	1.00	18.13
ATOM	20778	OH2	WAT	3848	-4.105	-53.981	13.133	1.00	21.13
ATOM	20779	OH2	WAT	3849	12.667	-3.865	21.133	1.00	29.13
ATOM	20780	OH2	WAT	3850	-1.046	-33.678	31.133	1.00	13.13
ATOM	20781	OH2	WAT	3851	-0.470	-21.594	50.133	1.00	11.13
ATOM	20782	OH2	WAT	3852	-1.123	-1.167	31.133	1.00	14.13
ATOM	20783	OH2	WAT	3853	24.503	-1.990	51.133	1.00	18.13
ATOM	20784	OH2	WAT	3854	17.864	-13.588	21.133	1.00	13.13
ATOM	20785	OH2	WAT	3855	-28.191	-14.815	51.133	1.00	16.13
ATOM	20786	OH2	WAT	3856	20.802	-3.682	31.133	1.00	35.13
ATOM	20787	OH2	WAT	3857	-2.678	-21.739	1.253	1.00	36.13
ATOM	20788	OH2	WAT	3858	50.447	-6.107	51.678	1.00	35.13
ATOM	20789	OH2	WAT	3859	-32.130	-4.257	14.443	1.00	36.13
ATOM	20790	OH2	WAT	3860	24.061	-51.738	31.085	1.00	11.13
ATOM	20791	OH2	WAT	3861	29.132	-7.962	25.133	1.00	36.13
ATOM	20792	OH2	WAT	3862	37.184	-1.315	28.928	1.00	28.67
ATOM	20793	OH2	WAT	3863	36.135	-20.133	38.449	1.00	28.63
ATOM	20794	OH2	WAT	3864	-0.937	-3.408	54.634	1.00	23.13
ATOM	20795	OH2	WAT	3865	11.362	-47.893	37.651	1.00	20.67
ATOM	20796	OH2	WAT	3866	-15.137	-73.732	62.658	1.00	31.13
ATOM	20797	OH2	WAT	3867	42.131	-21.336	46.440	1.00	24.13
ATOM	20798	OH2	WAT	3868	32.136	-19.299	26.131	1.00	23.13
ATOM	20799	OH2	WAT	3869	15.135	-17.295	25.130	1.00	20.13
ATOM	20800	OH2	WAT	3870	7.239	-17.183	-3.929	1.00	20.11
ATOM	20801	OH2	WAT	3871	2.717	-41.008	66.332	1.00	25.13
ATOM	20802	OH2	WAT	3872	34.914	-29.691	18.175	1.00	19.17
ATOM	20803	OH2	WAT	3873	13.616	-13.919	12.640	1.00	19.17
ATOM	20804	OH2	WAT	3874	-18.466	-31.393	25.214	1.00	11.17
ATOM	20805	OH2	WAT	3875	10.846	-43.517	34.812	1.00	11.17
ATOM	20806	OH2	WAT	3876	-20.622	-13.469	-6.135	1.00	27.17
ATOM	20807	OH2	WAT	3877	24.256	-1.550	31.778	1.00	11.17
ATOM	20808	OH2	WAT	3878	-0.145	-8.461	32.519	1.00	23.17
ATOM	20809	OH2	WAT	3879	21.114	-13.029	43.033	1.00	13.17
ATOM	20810	OH2	WAT	3880	-6.948	-50.191	-0.282	1.00	11.17
ATOM	20811	OH2	WAT	3881	-0.703	-13.370	5.179	1.00	11.17
ATOM	20812	OH2	WAT	3882	26.914	-13.963	17.772	1.00	23.17
ATOM	20813	OH2	WAT	3883	34.538	-11.361	3.210	1.00	11.17
ATOM	20814	OH2	WAT	3884	10.134	-13.497	28.475	1.00	11.17
ATOM	20815	OH2	WAT	3885	-21.397	-38.437	61.965	1.00	11.00
ATOM	20816	OH2	WAT	3886	40.549	-6.596	-8.710	1.00	33.92
ATOM	20817	OH2	WAT	3887	-0.117	-1.117	-8.111	1.00	23.84
ATOM	20818	OH2	WAT	3888	-1.117	-1.117	-8.594	1.00	37.17

ATOM	20819	OH2	WAT	3889	9.100	5.403	58.911	1.00	28.07
ATOM	20820	OH2	WAT	3890	-2.005	3.998	40.706	1.00	30.75
ATOM	20821	OH2	WAT	3891	-7.292	-27.146	1.998	1.00	3.101
ATOM	20822	OH2	WAT	3892	19.157	-5.927	15.506	1.00	31.49
ATOM	20823	OH2	WAT	3893	-18.372	23.651	43.344	1.00	31.66
ATOM	20824	OH2	WAT	3894	31.162	-51.490	16.861	1.00	31.13
ATOM	20825	OH2	WAT	3895	-16.499	9.900	3.726	1.00	33.65
ATOM	20826	OH2	WAT	3896	4.097	31.182	75.075	1.00	31.65
ATOM	20827	OH2	WAT	3897	2.547	4.874	28.181	1.00	31.86
ATOM	20828	OH2	WAT	3898	18.775	-19.780	-5.586	1.00	40.14
ATOM	20829	OH2	WAT	3899	25.581	-38.670	36.519	1.00	28.00
ATOM	20830	OH2	WAT	3900	-5.538	-11.112	0.952	1.00	31.04
ATOM	20831	OH2	WAT	3901	22.835	-4.612	10.494	1.00	23.12
ATOM	20832	OH2	WAT	3902	12.797	17.517	28.765	1.00	21.18
ATOM	20833	OH2	WAT	3903	4.058	-26.546	4.176	1.00	34.15
ATOM	20834	H2	WAT	3904	28.116	-1.506	18.412	1.00	30.12
ATOM	20835	OH2	WAT	3905	8.641	-41.868	14.564	1.00	21.18
ATOM	20836	OH2	WAT	3906	17.066	16.197	14.565	1.00	21.39
ATOM	20837	H2	WAT	3907	24.988	-0.811	-10.057	1.00	13.57
ATOM	20838	H2	WAT	3908	-5.456	13.973	18.883	1.00	11.97
ATOM	20839	OH2	WAT	3909	-33.130	-14.633	12.897	1.00	31.50
ATOM	20840	H2	WAT	3910	18.863	13.902	48.854	1.00	31.52
ATOM	20841	H2	WAT	3911	31.250	-12.800	22.707	1.00	24.39
ATOM	20842	OH2	WAT	3912	18.553	26.176	31.873	1.00	24.30
ATOM	20843	H2	WAT	3913	11.461	-44.895	14.819	1.00	34.66
ATOM	20844	H2	WAT	3914	48.046	8.069	27.036	1.00	31.38
ATOM	20845	OH2	WAT	3915	-8.960	47.747	70.348	1.00	31.11
ATOM	20846	OH2	WAT	3916	-11.454	17.897	8.038	1.00	34.08
ATOM	20847	H2	WAT	3917	-13.154	-2.083	-18.347	1.00	31.73
ATOM	20848	OH2	WAT	3918	-20.562	14.707	51.781	1.00	33.11
ATOM	20849	OH2	WAT	3919	-13.182	22.840	-8.533	1.00	31.06
ATOM	20850	H2	WAT	3920	-10.718	20.113	-11.034	1.00	14.60
ATOM	20851	H2	WAT	3921	23.187	32.177	23.113	1.00	29.21
ATOM	20852	OH2	WAT	3922	3.196	4.846	68.136	1.00	21.47
ATOM	20853	OH2	WAT	3923	-1.917	-45.119	34.834	1.00	11.20
ATOM	20854	OH2	WAT	3924	1.488	6.880	33.813	1.00	18.52
ATOM	20855	OH2	WAT	3925	12.958	6.677	4.688	1.00	27.12
ATOM	20856	OH2	WAT	3926	-23.821	-11.364	27.781	1.00	30.13
ATOM	20857	H2	WAT	3927	12.860	27.783	48.371	1.00	11.44
ATOM	20858	OH2	WAT	3928	-1.426	25.984	11.414	1.00	23.69
ATOM	20859	OH2	WAT	3929	-13.119	16.882	14.184	1.00	18.11
ATOM	20860	OH2	WAT	3930	43.195	-17.337	8.431	1.00	31.25
ATOM	20861	OH2	WAT	3931	12.063	6.691	16.462	1.00	33.20
ATOM	20862	OH2	WAT	3932	-3.032	1.177	27.073	1.00	34.25
ATOM	20863	H2	WAT	3933	31.057	21.889	1.621	1.00	24.72
ATOM	20864	H2	WAT	3934	38.107	-21.072	-10.854	1.00	21.61
ATOM	20865	OH2	WAT	3935	-23.025	12.188	-10.116	1.00	28.93
ATOM	20866	OH2	WAT	3936	22.699	-11.887	36.490	1.00	11.74
ATOM	20867	OH2	WAT	3937	17.375	-3.478	40.410	1.00	31.51
ATOM	20868	OH2	WAT	3938	7.461	15.365	34.973	1.00	44.23
ATOM	20869	OH2	WAT	3939	11.375	25.692	14.511	1.00	31.64
ATOM	20870	OH2	WAT	3940	-3.313	-38.236	19.667	1.00	31.46
ATOM	20871	OH2	WAT	3941	-7.692	-42.437	19.109	1.00	43.80
ATOM	20872	OH2	WAT	3942	-13.363	31.441	25.602	1.00	11.38
ATOM	20873	OH2	WAT	3943	-13.474	-21.794	42.795	1.00	14.53
ATOM	20874	OH2	WAT	3944	-3.638	41.102	62.635	1.00	11.56
ATOM	20875	OH2	WAT	3945	-3.137	35.816	15.937	1.00	11.59
ATOM	20876	OH2	WAT	3946	-1.6965	-38.554	19.318	1.00	31.77
ATOM	20877	OH2	WAT	3947	34.669	34.614	67.209	1.00	11.74
ATOM	20878	OH2	WAT	3948	54.577	15.128	62.645	1.00	31.51
ATOM	20879	OH2	WAT	3949	0.887	-14.123	4.073	1.00	28.74
ATOM	20880	OH2	WAT	3950	-14.047	25.053	18.339	1.00	11.90
ATOM	20881	OH2	WAT	3951	15.818	3.196	9.301	1.00	13.29
ATOM	20882	OH2	WAT	3952	-23.631	7.330	-14.769	1.00	13.33
ATOM	20883	OH2	WAT	3953	1.132	-12.635	27.885	1.00	13.01
ATOM	20884	OH2	WAT	3954	-24.033	-11.065	68.449	1.00	36.63
ATOM	20885	OH2	WAT	3955	31.947	-13.774	44.112	1.00	17.23
ATOM	20886	OH2	WAT	3956	27.559	-23.512	73.698	1.00	34.23
ATOM	20887	OH2	WAT	3957	40.516	19.912	40.333	1.00	17.16
ATOM	20888	OH2	WAT	3958	-21.782	-38.679	25.592	1.00	13.71
ATOM	20889	OH2	WAT	3959	23.138	35.825	22.871	1.00	13.71
ATOM	20890	OH2	WAT	3960	6.627	13.854	67.381	1.00	33.43
ATOM	20891	OH2	WAT	3961	7.495	30.319	65.877	1.00	17.83
ATOM	20892	OH2	WAT	3962	39.945	-11.981	59.062	1.00	31.63
ATOM	20893	OH2	WAT	3963	10.451	0.990	11.902	1.00	42.44
ATOM	20894	OH2	WAT	3964	-19.187	17.176	7.811	1.00	31.63
ATOM	20895	OH2	WAT	3965	11.177	-3.361	57.753	1.00	34.13

ATOM	20896	OH2	WAT	3966	-21.554	13.101	7.475	1.00	24.12
ATOM	20897	OH2	WAT	3967	8.150	-27.034	50.434	1.00	39.84
ATOM	20898	OH2	WAT	3968	-18.831	9.111	46.959	1.00	30.55
ATOM	20899	OH2	WAT	3969	50.680	1.961	15.800	1.00	35.02
ATOM	20900	OH2	WAT	3970	35.217	-49.128	25.289	1.00	34.87
ATOM	20901	OH2	WAT	3971	-39.398	-8.042	11.100	1.00	31.40
ATOM	20902	OH2	WAT	3972	19.447	17.441	13.441	1.00	23.21
ATOM	20903	OH2	WAT	3973	-13.103	5.510	51.486	1.00	32.30
ATOM	20904	OH2	WAT	3974	35.512	-38.910	31.787	1.00	29.21
ATOM	20905	OH2	WAT	3975	42.490	-6.432	48.177	1.00	37.33
ATOM	20906	OH2	WAT	3976	55.963	7.452	19.211	1.00	41.37
ATOM	20907	OH2	WAT	3977	-23.545	12.346	-12.711	1.00	36.68
ATOM	20908	OH2	WAT	3978	29.194	-29.699	41.441	1.00	18.21
ATOM	20909	OH2	WAT	3979	24.546	4.768	33.624	1.00	24.00
ATOM	20910	OH2	WAT	3980	11.846	-56.638	27.547	1.00	36.56
ATOM	20911	OH2	WAT	3981	-11.970	-28.236	68.181	1.00	31.56
ATOM	20912	OH2	WAT	3982	34.680	0.521	51.110	1.00	26.18
ATOM	20913	OH2	WAT	3983	24.660	-27.638	15.617	1.00	15.15
ATOM	20914	OH2	WAT	3984	11.178	-42.174	31.370	1.00	14.11
ATOM	20915	OH2	WAT	3985	-11.138	-29.308	25.990	1.00	10.06
ATOM	20916	OH2	WAT	3986	-51.134	-4.758	26.411	1.00	13.64
ATOM	20917	OH2	WAT	3987	11.112	25.190	72.511	1.00	29.87
ATOM	20918	OH2	WAT	3988	-1.111	-17.085	4.411	1.00	12.12
ATOM	20919	OH2	WAT	3989	14.873	-37.118	62.713	1.00	16.81
ATOM	20920	OH2	WAT	3990	-1.111	-32.180	33.647	1.00	1.85
ATOM	20921	OH2	WAT	3991	18.911	6.700	24.617	1.00	18.05
ATOM	20922	OH2	WAT	3992	1.411	-16.108	4.111	1.00	11.20
ATOM	20923	OH2	WAT	3993	21.111	35.119	59.813	1.00	10.73
ATOM	20924	OH2	WAT	3994	-29.514	4.110	48.463	1.00	8.77
ATOM	20925	OH2	WAT	3995	-10.016	20.169	3.117	1.00	17.35
ATOM	20926	OH2	WAT	3996	13.415	-13.116	30.416	1.00	17.58
ATOM	20927	OH2	WAT	3997	-18.648	-30.115	4.110	1.00	17.19
ATOM	20928	OH2	WAT	3998	-1.111	2.114	16.916	1.00	12.81
ATOM	20929	OH2	WAT	3999	-6.112	-20.145	39.114	1.00	16.98
ATOM	20930	OH2	WAT	4000	2.111	16.115	32.113	1.00	40.81
ATOM	20931	OH2	WAT	4001	37.111	-42.118	20.117	1.00	15.13
ATOM	20932	OH2	WAT	4002	1.111	0.111	4.111	1.00	40.93
ATOM	20933	OH2	WAT	4003	1.111	-18.119	-3.111	1.00	41.83
ATOM	20934	OH2	WAT	4004	-2.114	-24.113	41.113	1.00	16.17
ATOM	20935	OH2	WAT	4005	-14.111	-19.114	-6.116	1.00	14.43
ATOM	20936	OH2	WAT	4006	19.112	-17.115	-18.113	1.00	12.60
ATOM	20937	OH2	WAT	4007	19.114	-14.113	-13.113	1.00	19.84
ATOM	20938	OH2	WAT	4008	15.113	15.111	39.114	1.00	30.34
ATOM	20939	OH2	WAT	4009	35.111	-21.114	20.117	1.00	31.18
ATOM	20940	OH2	WAT	4010	22.119	15.119	3.111	1.00	35.03
ATOM	20941	OH2	WAT	4011	-10.113	-48.117	3.113	1.00	18.45
ATOM	20942	OH2	WAT	4012	-10.114	34.111	56.114	1.00	18.81
ATOM	20943	OH2	WAT	4013	-10.116	33.115	63.115	1.00	37.29
ATOM	20944	OH2	WAT	4014	48.112	-3.112	51.111	1.00	37.37
ATOM	20945	OH2	WAT	4015	29.110	1.113	29.111	1.00	13.85
ATOM	20946	OH2	WAT	4016	19.115	-12.111	72.113	1.00	16.63
ATOM	20947	OH2	WAT	4017	13.118	-34.111	37.115	1.00	19.54
ATOM	20948	OH2	WAT	4018	-5.112	-3.117	29.113	1.00	11.13
ATOM	20949	OH2	WAT	4019	1.113	-38.116	13.118	1.00	11.14
ATOM	20950	OH2	WAT	4020	-7.110	-14.115	72.110	1.00	12.77
ATOM	20951	OH2	WAT	4021	1.112	22.114	-7.119	1.00	12.91
ATOM	20952	OH2	WAT	4022	-3.114	14.112	-24.113	1.00	16.19
ATOM	20953	OH2	WAT	4023	-8.112	3.112	-24.112	1.00	13.84
ATOM	20954	OH2	WAT	4024	1.110	-31.110	8.111	1.00	14.13
ATOM	20955	OH2	WAT	4025	1.111	13.112	12.110	1.00	14.17
ATOM	20956	OH2	WAT	4026	-20.110	-39.119	16.114	1.00	41.85
ATOM	20957	OH2	WAT	4027	1.114	19.116	52.119	1.00	11.13
ATOM	20958	OH2	WAT	4028	1.113	24.116	40.111	1.00	14.11
ATOM	20959	OH2	WAT	4029	57.115	10.118	50.117	1.00	11.15
ATOM	20960	OH2	WAT	4030	1.114	-42.119	39.119	1.00	16.10
ATOM	20961	OH2	WAT	4031	10.118	-9.112	72.112	1.00	16.13
ATOM	20962	OH2	WAT	4032	1.111	-27.114	51.115	1.00	15.17
ATOM	20963	OH2	WAT	4033	1.118	-39.119	13.112	1.00	17.18
ATOM	20964	OH2	WAT	4034	-29.117	-27.116	8.114	1.00	11.19
ATOM	20965	OH2	WAT	4035	1.116	13.117	-20.111	1.00	40.93
ATOM	20966	OH2	WAT	4036	1.118	-20.113	-14.113	1.00	11.18
ATOM	20967	OH2	WAT	4037	1.115	-18.115	1.116	1.00	14.11
ATOM	20968	OH2	WAT	4038	-3.111	-18.117	14.111	1.00	19.11
ATOM	20969	OH2	WAT	4039	1.117	15.110	67.117	1.00	25.10
ATOM	20970	OH2	WAT	4040	4.117	-49.114	35.115	1.00	17.16
ATOM	20971	OH2	WAT	4041	1.114	16.110	13.118	1.00	11.15
ATOM	20972	OH2	WAT	4042	1.111	-11.111	1.116	1.00	11.11

ATOM	20973	CH2	WAT	4043	20.672	6.288	43.154	1.00	11.39
ATOM	20974	CH2	WAT	4044	24.230	13.675	24.481	1.00	17.87
ATOM	20975	CH2	WAT	4045	11.491	-12.039	39.730	1.00	16.52
ATOM	20976	CH2	WAT	4046	-2.958	-45.541	12.487	1.00	25.04
ATOM	20977	CH2	WAT	4047	21.123	0.659	54.913	1.00	19.00
ATOM	20978	CH2	WAT	4048	10.870	-15.313	26.740	1.00	17.94
ATOM	20979	CH2	WAT	4049	-7.083	3.990	47.118	1.00	22.59
ATOM	20980	CH2	WAT	4050	-15.007	20.551	-11.225	1.00	23.46
ATOM	20981	CH2	WAT	4051	5.614	-3.781	42.911	1.00	19.68
ATOM	20982	CH2	WAT	4052	2.853	-3.387	14.276	1.00	21.86
ATOM	20983	CH2	WAT	4053	-28.931	0.170	43.415	1.00	25.48
ATOM	20984	CH2	WAT	4054	18.990	13.789	23.082	1.00	34.23
ATOM	20985	CH2	WAT	4055	14.163	15.990	12.872	1.00	22.69
ATOM	20986	CH2	WAT	4056	4.404	-26.590	36.835	1.00	29.51
ATOM	20987	CH2	WAT	4057	16.882	17.460	50.538	1.00	25.65
ATOM	20988	CH2	WAT	4058	7.333	-15.420	22.245	1.00	23.72
ATOM	20989	CH2	WAT	4059	1.944	-8.274	37.874	1.00	24.67
ATOM	20990	CH2	WAT	4060	-0.816	5.377	57.566	1.00	26.90
ATOM	20991	CH2	WAT	4061	11.870	-14.651	28.196	1.00	26.00
ATOM	20992	CH2	WAT	4062	8.670	-3.111	7.980	1.00	23.89
ATOM	20993	CH2	WAT	4063	7.940	1.887	17.425	1.00	29.72
ATOM	20994	CH2	WAT	4064	-7.330	-10.140	38.159	1.00	24.67
ATOM	20995	CH2	WAT	4065	19.946	-14.570	22.451	1.00	21.68
ATOM	20996	CH2	WAT	4066	26.773	-23.577	42.110	1.00	30.96
ATOM	20997	CH2	WAT	4067	19.125	-21.410	77.131	1.00	27.96
ATOM	20998	CH2	WAT	4068	-14.111	-21.410	14.566	1.00	22.86
ATOM	20999	CH2	WAT	4069	10.156	-42.741	16.187	1.00	30.39
ATOM	21000	CH2	WAT	4070	9.046	1.134	15.495	1.00	23.39
ATOM	21001	CH2	WAT	4071	15.156	-6.470	42.194	1.00	26.75
ATOM	21002	CH2	WAT	4072	21.877	1.158	28.110	1.00	26.02
ATOM	21003	CH2	WAT	4073	42.053	-24.610	52.855	1.00	30.64
ATOM	21004	CH2	WAT	4074	-5.163	-46.820	9.421	1.00	25.65
ATOM	21005	CH2	WAT	4075	-22.461	-34.438	16.988	1.00	29.68
ATOM	21006	CH2	WAT	4076	12.158	51.160	17.405	1.00	42.52
ATOM	21007	CH2	WAT	4077	14.558	-21.050	-8.117	1.00	24.29
ATOM	21008	CH2	WAT	4078	14.637	-21.290	77.117	1.00	26.15
ATOM	21009	CH2	WAT	4079	38.817	13.790	27.817	1.00	22.17
ATOM	21010	CH2	WAT	4080	6.833	-11.230	41.610	1.00	27.51
ATOM	21011	CH2	WAT	4081	19.800	4.001	-7.345	1.00	21.84
ATOM	21012	CH2	WAT	4082	-11.712	11.240	-16.297	1.00	17.20
ATOM	21013	CH2	WAT	4083	-1.105	13.790	-13.740	1.00	27.77
ATOM	21014	CH2	WAT	4084	-13.478	31.890	17.898	1.00	25.63
ATOM	21015	CH2	WAT	4085	-26.770	-3.950	27.401	1.00	21.59
ATOM	21016	CH2	WAT	4086	21.410	-27.440	11.008	1.00	46.82
ATOM	21017	CH2	WAT	4087	21.932	-13.353	-18.425	1.00	27.71
ATOM	21018	CH2	WAT	4088	12.148	-6.264	68.048	1.00	23.46
ATOM	21019	CH2	WAT	4089	13.219	-38.604	10.813	1.00	30.40
ATOM	21020	CH2	WAT	4090	21.260	-4.177	28.906	1.00	33.61
ATOM	21021	CH2	WAT	4091	7.550	-54.047	18.558	1.00	26.32
ATOM	21022	CH2	WAT	4092	0.614	21.834	41.118	1.00	25.64
ATOM	21023	CH2	WAT	4093	17.548	-5.933	27.441	1.00	32.64
ATOM	21024	CH2	WAT	4094	21.678	5.075	19.740	1.00	17.05
ATOM	21025	CH2	WAT	4095	28.270	-46.823	12.826	1.00	24.39
ATOM	21026	CH2	WAT	4096	11.820	-19.653	9.113	1.00	25.48
ATOM	21027	CH2	WAT	4097	-13.107	-44.364	8.920	1.00	27.29
ATOM	21028	CH2	WAT	4098	27.640	11.321	9.134	1.00	32.90
ATOM	21029	CH2	WAT	4099	16.250	-43.393	10.111	1.00	26.63
ATOM	21030	CH2	WAT	4100	4.110	-39.224	10.106	1.00	32.32
ATOM	21031	CH2	WAT	4101	23.743	-40.037	37.450	1.00	50.14
ATOM	21032	CH2	WAT	4102	-24.342	-7.153	10.137	1.00	39.53
ATOM	21033	CH2	WAT	4103	-6.410	11.724	-38.107	1.00	25.75
ATOM	21034	CH2	WAT	4104	-9.430	29.111	11.110	1.00	27.15
ATOM	21035	CH2	WAT	4105	32.807	-16.675	32.463	1.00	26.40
ATOM	21036	CH2	WAT	4106	14.313	14.726	67.693	1.00	17.74
ATOM	21037	CH2	WAT	4107	4.164	-18.560	11.863	1.00	18.77
ATOM	21038	CH2	WAT	4108	40.164	-35.415	27.777	1.00	26.69
ATOM	21039	CH2	WAT	4109	-21.468	1.077	-9.752	1.00	23.22
ATOM	21040	CH2	WAT	4110	40.498	-3.634	41.681	1.00	21.74
ATOM	21041	CH2	WAT	4111	18.777	-56.264	21.133	1.00	15.38
ATOM	21042	CH2	WAT	4112	4.820	-34.443	21.112	1.00	27.18
ATOM	21043	CH2	WAT	4113	-3.278	-12.430	3.103	1.00	29.79
ATOM	21044	CH2	WAT	4114	31.595	-3.240	1.444	1.00	31.75
ATOM	21045	CH2	WAT	4115	29.923	26.631	13.933	1.00	33.99
ATOM	21046	CH2	WAT	4116	24.643	5.487	-7.858	1.00	45.43
ATOM	21047	CH2	WAT	4117	-14.580	-19.270	41.760	1.00	21.84
ATOM	21048	CH2	WAT	4118	3.130	21.050	-8.413	1.00	39.14
ATOM	21049	CH2	WAT	4119	2.110	21.270	3.109	1.00	45.65

ATOM	21050	OH2	WAT	4120	52.126	-3.822	53.740	1.00	45.42
ATOM	21051	OH2	WAT	4121	46.817	-4.484	-14.025	1.00	46.99
ATOM	21052	OH2	WAT	4122	-12.192	3.190	66.941	1.00	55.76
ATOM	21053	OH2	WAT	4123	3.150	29.034	35.859	1.00	34.34
ATOM	21054	OH2	WAT	4124	0.606	-33.642	55.873	1.00	37.91
ATOM	21055	OH2	WAT	4125	-14.891	36.065	20.896	1.00	27.73
ATOM	21056	OH2	WAT	4126	-25.092	9.956	50.529	1.00	20.01
ATOM	21057	OH2	WAT	4127	24.645	5.578	21.558	1.00	23.84
ATOM	21058	OH2	WAT	4128	14.966	-15.407	27.047	1.00	37.43
ATOM	21059	OH2	WAT	4129	25.211	6.590	59.414	1.00	32.26
ATOM	21060	OH2	WAT	4130	5.921	2.186	48.678	1.00	28.21
ATOM	21061	OH2	WAT	4131	-0.194	-35.527	6.663	1.00	24.78
ATOM	21062	OH2	WAT	4132	-9.038	35.946	43.790	1.00	37.53
ATOM	21063	OH2	WAT	4133	17.435	-31.315	16.469	1.00	31.72
ATOM	21064	OH2	WAT	4134	30.359	5.569	52.711	1.00	23.92
ATOM	21065	OH2	WAT	4135	2.633	-12.556	17.183	1.00	19.93
ATOM	21066	OH2	WAT	4136	19.428	-23.653	47.212	1.00	24.33
ATOM	21067	OH2	WAT	4137	4.178	22.765	15.107	1.00	31.53
ATOM	21068	OH2	WAT	4138	6.178	-15.894	41.477	1.00	23.18
ATOM	21069	OH2	WAT	4139	28.131	-2.532	10.117	1.00	24.13
ATOM	21070	OH2	WAT	4140	37.871	-34.267	20.114	1.00	16.17
ATOM	21071	OH2	WAT	4141	-15.887	10.709	12.615	1.00	17.44
ATOM	21072	OH2	WAT	4142	14.842	-13.857	17.115	1.00	23.59
ATOM	21073	OH2	WAT	4143	1.144	-15.812	37.713	1.00	15.17
ATOM	21074	OH2	WAT	4144	17.873	-19.199	7.156	1.00	16.03
ATOM	21075	OH2	WAT	4145	9.154	-49.449	29.114	1.00	18.94
ATOM	21076	OH2	WAT	4146	15.189	1.726	40.916	1.00	10.19
ATOM	21077	OH2	WAT	4147	8.127	-4.347	9.940	1.00	21.22
ATOM	21078	OH2	WAT	4148	-5.171	6.487	19.331	1.00	17.12
ATOM	21079	OH2	WAT	4149	28.469	41.103	55.163	1.00	19.65
ATOM	21080	OH2	WAT	4150	23.580	5.660	40.113	1.00	19.46
ATOM	21081	OH2	WAT	4151	13.839	17.838	16.114	1.00	18.14
ATOM	21082	OH2	WAT	4152	3.363	-55.115	26.515	1.00	16.41
ATOM	21083	OH2	WAT	4153	41.242	-31.734	52.912	1.00	15.83
ATOM	21084	OH2	WAT	4154	19.162	21.117	30.831	1.00	13.81
ATOM	21085	OH2	WAT	4155	13.478	-11.062	37.733	1.00	12.65
ATOM	21086	OH2	WAT	4156	4.765	-1.366	40.740	1.00	35.82
ATOM	21087	OH2	WAT	4157	19.123	-19.587	75.113	1.00	17.11
ATOM	21088	OH2	WAT	4158	19.034	-11.112	19.117	1.00	23.78
ATOM	21089	OH2	WAT	4159	-1.163	19.119	29.116	1.00	17.24
ATOM	21090	OH2	WAT	4160	-6.156	-42.114	6.119	1.00	41.11
ATOM	21091	OH2	WAT	4161	19.161	-28.441	34.812	1.00	16.09
ATOM	21092	OH2	WAT	4162	18.475	14.115	19.117	1.00	38.43
ATOM	21093	OH2	WAT	4163	-3.922	-20.117	37.814	1.00	31.16
ATOM	21094	OH2	WAT	4164	18.011	-1.115	54.617	1.00	30.47
ATOM	21095	OH2	WAT	4165	-15.611	3.119	22.614	1.00	31.22
ATOM	21096	OH2	WAT	4166	40.765	-1.115	40.115	1.00	32.31
ATOM	21097	OH2	WAT	4167	47.962	33.040	7.218	1.00	40.79
ATOM	21098	OH2	WAT	4168	-3.032	-33.860	34.864	1.00	17.66
ATOM	21099	OH2	WAT	4169	9.191	20.743	72.310	1.00	35.67
ATOM	21100	OH2	WAT	4170	11.973	-21.517	2.195	1.00	36.62
ATOM	21101	OH2	WAT	4171	-30.441	-6.046	44.029	1.00	34.70
ATOM	21102	OH2	WAT	4172	-5.261	-11.366	53.111	1.00	34.19
ATOM	21103	OH2	WAT	4173	-14.399	-20.387	49.817	1.00	30.17
ATOM	21104	OH2	WAT	4174	-10.613	-11.112	4.611	1.00	41.34
ATOM	21105	OH2	WAT	4175	14.511	-13.715	5.114	1.00	7.11
ATOM	21106	OH2	WAT	4176	19.313	-23.116	1.117	1.00	32.15
ATOM	21107	OH2	WAT	4177	-29.715	-3.115	33.415	1.00	3.11
ATOM	21108	OH2	WAT	4178	10.514	-13.118	-2.113	1.00	5.73
ATOM	21109	OH2	WAT	4179	-6.662	7.116	33.113	1.00	1.11
ATOM	21110	OH2	WAT	4180	-2.522	3.114	63.712	1.00	2.17
ATOM	21111	OH2	WAT	4181	46.104	3.118	23.110	1.00	5.113
ATOM	21112	OH2	WAT	4182	8.111	4.114	41.717	1.00	9.119
ATOM	21113	OH2	WAT	4183	42.814	-14.118	55.116	1.00	17.19
ATOM	21114	OH2	WAT	4184	19.111	21.116	33.117	1.00	9.116
ATOM	21115	OH2	WAT	4185	19.114	-33.113	10.115	1.00	7.118
ATOM	21116	OH2	WAT	4186	-15.114	-4.113	-3.112	1.00	-1.11
ATOM	21117	OH2	WAT	4187	-1.110	1.114	14.119	1.00	-0.11
ATOM	21118	OH2	WAT	4188	44.119	1.112	29.116	1.00	8.119
ATOM	21119	OH2	WAT	4189	-6.112	-23.116	46.110	1.00	18.110
ATOM	21120	OH2	WAT	4190	13.115	-5.118	41.112	1.00	15.113
ATOM	21121	OH2	WAT	4191	19.114	3.118	49.114	1.00	15.110
ATOM	21122	OH2	WAT	4192	-36.118	-21.114	23.116	1.00	35.110
ATOM	21123	OH2	WAT	4193	17.111	0.110	12.114	1.00	13.118
ATOM	21124	OH2	WAT	4194	19.111	33.110	23.114	1.00	12.112
ATOM	21125	OH2	WAT	4195	-21.112	3.114	3.116	1.00	3.118
ATOM	21126	OH2	WAT	4196	-11.111	13.119	4.113	1.00	11.113

ATOM	21127	OH2	WAT	4197	-17.403	21.503	-8.388	1.00	32.40
ATOM	21128	OH2	WAT	4198	21.977	9.281	37.108	1.00	32.87
ATOM	21129	OH2	WAT	4199	37.419	17.808	11.884	1.00	46.31
ATOM	21130	OH2	WAT	4200	22.196	9.679	18.773	1.00	31.77
ATOM	21131	OH2	WAT	4201	16.692	-23.312	-5.215	1.00	35.91
ATOM	21132	OH2	WAT	4202	42.777	-33.719	53.939	1.00	31.86
ATOM	21133	OH2	WAT	4203	1.354	-2.249	14.775	1.00	31.10
ATOM	21134	OH2	WAT	4204	-16.952	-3.544	38.410	1.00	31.73
ATOM	21135	OH2	WAT	4205	29.239	-5.609	38.612	1.00	29.97
ATOM	21136	OH2	WAT	4206	43.138	0.368	25.059	1.00	31.24
ATOM	21137	OH2	WAT	4207	52.415	-7.789	51.948	1.00	30.80
ATOM	21138	OH2	WAT	4208	-2.220	0.148	40.331	1.00	41.13
ATOM	21139	OH2	WAT	4209	9.166	-36.804	8.279	1.00	30.28
ATOM	21140	OH2	WAT	4210	37.549	-23.883	19.085	1.00	35.85
ATOM	21141	OH2	WAT	4211	40.766	-43.409	18.138	1.00	35.18
ATOM	21142	OH2	WAT	4212	41.259	-39.412	12.730	1.00	35.03
ATOM	21143	OH2	WAT	4213	5.866	-16.744	26.445	1.00	23.99
ATOM	21144	OH2	WAT	4214	-0.104	24.476	38.779	1.00	31.34
ATOM	21145	H2	WAT	4215	-31.816	-5.411	6.126	1.00	46.67
ATOM	21146	H2	WAT	4216	1.602	-25.188	41.331	1.00	31.87
ATOM	21147	H2	WAT	4217	1.244	8.388	53.338	1.00	31.61
ATOM	21148	H2	WAT	4218	8.188	14.468	-1.733	1.00	31.49
ATOM	21149	H2	WAT	4219	-5.071	39.848	64.146	1.00	36.17
ATOM	21150	OH2	WAT	4220	30.659	5.376	54.006	1.00	31.56
ATOM	21151	OH2	WAT	4221	-25.160	5.471	48.948	1.00	31.32
ATOM	21152	OH2	WAT	4222	4.993	-19.436	39.936	1.00	23.11
ATOM	21153	H2	WAT	4223	-19.185	22.012	52.395	1.00	36.91
ATOM	21154	OH2	WAT	4224	-1.285	22.273	40.496	1.00	31.03
ATOM	21155	H2	WAT	4225	-4.332	-6.376	44.639	1.00	31.56
ATOM	21156	H2	WAT	4226	-13.318	-40.177	25.117	1.00	31.02
ATOM	21157	H2	WAT	4227	-27.811	-16.219	55.472	1.00	43.39
ATOM	21158	OH2	WAT	4228	1.206	13.432	-12.894	1.00	31.50
ATOM	21159	OH2	WAT	4229	31.515	42.188	14.767	1.00	26.19
ATOM	21160	OH2	WAT	4230	-22.449	-40.140	8.289	1.00	31.85
ATOM	21161	OH2	WAT	4231	4.884	-8.611	38.637	1.00	31.97
ATOM	21162	OH2	WAT	4232	41.136	-12.577	43.000	1.00	34.40
ATOM	21163	OH2	WAT	4233	22.346	33.881	68.574	1.00	47.36
ATOM	21164	OH2	WAT	4234	8.737	5.671	40.043	1.00	31.41
ATOM	21165	OH2	WAT	4235	9.196	-13.093	37.177	1.00	31.25
ATOM	21166	OH2	WAT	4236	5.818	-11.699	14.657	1.00	40.01
ATOM	21167	OH2	WAT	4237	-5.652	-17.045	3.161	1.00	31.26
ATOM	21168	OH2	WAT	4238	-22.625	5.122	41.835	1.00	32.35
ATOM	21169	OH2	WAT	4239	-13.321	-28.114	62.371	1.00	31.25
ATOM	21170	OH2	WAT	4240	-22.968	-6.416	35.149	1.00	32.54
ATOM	21171	OH2	WAT	4241	-27.579	-29.214	23.224	1.00	28.40
ATOM	21172	OH2	WAT	4242	-17.589	-11.229	71.414	1.00	49.96
ATOM	21173	OH2	WAT	4243	-11.591	-26.894	3.938	1.00	30.62
ATOM	21174	OH2	WAT	4244	11.974	-44.145	23.557	1.00	40.76
ATOM	21175	OH2	WAT	4245	-4.840	12.632	24.363	1.00	31.77
ATOM	21176	OH2	WAT	4246	17.599	-6.470	55.515	1.00	36.89
ATOM	21177	OH2	WAT	4247	-28.043	2.379	-0.536	1.00	32.68
ATOM	21178	OH2	WAT	4248	39.767	-37.649	16.084	1.00	42.67
ATOM	21179	OH2	WAT	4249	22.684	29.379	5.443	1.00	39.59
ATOM	21180	OH2	WAT	4250	-8.757	40.376	1.094	1.00	32.81
ATOM	21181	OH2	WAT	4251	40.067	-45.373	29.265	1.00	35.71
ATOM	21182	OH2	WAT	4252	28.427	1.170	43.411	1.00	31.92
ATOM	21183	OH2	WAT	4253	17.254	-13.540	32.677	1.00	37.95
ATOM	21184	OH2	WAT	4254	38.172	16.681	33.759	1.00	36.90
ATOM	21185	OH2	WAT	4255	-23.882	11.370	4.625	1.00	31.75
ATOM	21186	OH2	WAT	4256	14.484	23.274	17.143	1.00	31.63
ATOM	21187	OH2	WAT	4257	14.735	14.176	-2.663	1.00	31.35
ATOM	21188	OH2	WAT	4258	8.833	-26.613	58.153	1.00	41.01
ATOM	21189	OH2	WAT	4259	12.646	-9.176	-24.463	1.00	33.12
ATOM	21190	OH2	WAT	4260	40.173	-8.499	1.113	1.00	31.36
ATOM	21191	OH2	WAT	4261	27.784	-6.973	15.161	1.00	30.38
ATOM	21192	OH2	WAT	4262	12.857	11.178	59.492	1.00	41.69
ATOM	21193	OH2	WAT	4263	-3.791	28.308	40.512	1.00	31.74
ATOM	21194	OH2	WAT	4264	6.424	28.970	13.284	1.00	31.75
ATOM	21195	OH2	WAT	4265	-8.123	7.979	59.997	1.00	31.92
ATOM	21196	OH2	WAT	4266	-11.871	-50.970	21.231	1.00	41.36
ATOM	21197	OH2	WAT	4267	6.422	1.496	67.198	1.00	31.31
ATOM	21198	OH2	WAT	4268	4.155	15.109	20.451	1.00	30.58
ATOM	21199	OH2	WAT	4269	18.253	-3.614	-4.695	1.00	41.73
ATOM	21200	OH2	WAT	4270	-8.179	-23.474	33.765	1.00	31.88
ATOM	21201	OH2	WAT	4271	41.763	51.778	4.914	1.00	21.90
ATOM	21202	OH2	WAT	4272	11.398	46.346	14.162	1.00	31.61
ATOM	21203	OH2	WAT	4273	6.177	15.112	16.993	1.00	32.78

ATOM	21204	OH2	WAT	4274	-6.998	36.928	26.870	1.00	43.35
ATOM	21205	OH2	WAT	4275	46.918	7.591	34.599	1.00	24.81
ATOM	21206	OH2	WAT	4276	50.633	-8.055	-5.708	1.00	40.55
ATOM	21207	OH2	WAT	4277	19.452	-39.792	61.673	1.00	34.30
ATOM	21208	OH2	WAT	4278	7.797	-30.621	39.433	1.00	33.65
ATOM	21209	OH2	WAT	4279	13.836	-1.131	10.199	1.00	41.50
ATOM	21210	OH2	WAT	4280	-11.160	20.611	-8.452	1.00	32.16
ATOM	21211	OH2	WAT	4281	43.793	-19.678	50.399	1.00	35.75
ATOM	21212	OH2	WAT	4282	47.155	27.261	14.453	1.00	38.21
ATOM	21213	OH2	WAT	4283	8.531	-12.555	69.846	1.00	42.83
ATOM	21214	OH2	WAT	4284	39.230	21.846	69.135	1.00	34.37
ATOM	21215	OH2	WAT	4285	49.714	-15.553	1.722	1.00	31.07
ATOM	21216	OH2	WAT	4286	8.116	36.082	54.059	1.00	23.72
ATOM	21217	OH2	WAT	4287	23.244	32.118	59.689	1.00	33.29
ATOM	21218	OH2	WAT	4288	19.581	21.484	39.067	1.00	43.71
ATOM	21219	OH2	WAT	4289	19.854	9.561	27.367	1.00	34.18
ATOM	21220	OH2	WAT	4290	-32.133	-19.382	54.831	1.00	42.08
ATOM	21221	OH2	WAT	4291	36.154	-44.113	13.344	1.00	29.99
ATOM	21222	OH2	WAT	4292	53.618	1.609	45.991	1.00	29.39
ATOM	21223	OH2	WAT	4293	-18.835	-1.554	11.135	1.00	34.13
ATOM	21224	OH2	WAT	4294	29.811	34.226	69.433	1.00	41.71
ATOM	21225	OH2	WAT	4295	-17.831	14.335	24.237	1.00	39.90
ATOM	21226	OH2	WAT	4296	-6.791	23.116	12.177	1.00	31.11
ATOM	21227	OH2	WAT	4297	-11.117	0.437	-19.315	1.00	40.12
ATOM	21228	OH2	WAT	4298	51.117	-29.815	-17.257	1.00	37.42
ATOM	21229	OH2	WAT	4299	16.111	-17.682	-14.434	1.00	31.68
ATOM	21230	OH2	WAT	4300	20.116	8.115	-5.533	1.00	38.06
ATOM	21231	OH2	WAT	4301	9.119	-46.117	1.117	1.00	36.13
ATOM	21232	OH2	WAT	4302	-10.112	-1.114	19.114	1.00	30.16
ATOM	21233	OH2	WAT	4303	-10.114	13.117	-19.116	1.00	19.11
ATOM	21234	OH2	WAT	4304	10.112	-21.110	-10.119	1.00	32.15
ATOM	21235	OH2	WAT	4305	-15.111	14.113	49.116	1.00	41.17
ATOM	21236	OH2	WAT	4306	-15.111	-24.116	1.117	1.00	37.14
ATOM	21237	OH2	WAT	4307	-15.112	2.114	59.117	1.00	44.13
ATOM	21238	OH2	WAT	4308	-11.112	-2.116	1.117	1.00	36.14
ATOM	21239	OH2	WAT	4309	-11.116	10.114	8.117	1.00	13.12
ATOM	21240	OH2	WAT	4310	11.112	-1.111	-1.119	1.00	31.12
ATOM	21241	OH2	WAT	4311	18.114	-3.112	1.119	1.00	36.11
ATOM	21242	OH2	WAT	4312	48.111	-21.112	2.117	1.00	16.13
ATOM	21243	OH2	WAT	4313	19.111	-44.113	1.114	1.00	31.12
ATOM	21244	OH2	WAT	4314	44.117	-1.117	8.115	1.00	31.13
ATOM	21245	OH2	WAT	4315	3.114	-16.111	2.115	1.00	46.09
ATOM	21246	OH2	WAT	4316	1.112	1.116	19.119	1.00	36.11
ATOM	21247	OH2	WAT	4317	12.119	19.119	2.119	1.00	11.03
ATOM	21248	OH2	WAT	4318	-18.115	-3.119	1.116	1.00	19.54
ATOM	21249	OH2	WAT	4319	12.115	-54.118	1.113	1.00	30.01
ATOM	21250	OH2	WAT	4320	17.110	-2.111	5.117	1.00	38.52
ATOM	21251	OH2	WAT	4321	56.112	1.118	51.111	1.00	44.62
ATOM	21252	OH2	WAT	4322	-21.111	-37.115	1.013	1.00	36.63
ATOM	21253	OH2	WAT	4323	36.111	-1.116	51.114	1.00	36.19
ATOM	21254	OH2	WAT	4324	13.110	6.111	-21.111	1.00	38.56
ATOM	21255	OH2	WAT	4325	-30.112	-37.118	1.111	1.00	47.52
ATOM	21256	OH2	WAT	4326	-31.110	-31.116	1.115	1.00	43.84
ATOM	21257	OH2	WAT	4327	42.119	27.113	19.116	1.00	44.26
ATOM	21258	OH2	WAT	4328	45.115	11.111	19.114	1.00	35.10
ATOM	21259	OH2	WAT	4329	25.116	-51.118	1.110	1.00	34.18
ATOM	21260	OH2	WAT	4330	37.110	-20.119	1.116	1.00	34.18
ATOM	21261	OH2	WAT	4331	22.114	1.118	-19.116	1.00	33.51
ATOM	21262	OH2	WAT	4332	-22.117	14.111	1.113	1.00	36.11
ATOM	21263	OH2	WAT	4333	-10.119	-27.114	1.116	1.00	26.18
ATOM	21264	OH2	WAT	4334	-9.112	-49.116	1.118	1.00	45.14
ATOM	21265	OH2	WAT	4335	-10.118	-43.116	1.117	1.00	33.14
ATOM	21266	OH2	WAT	4336	-19.116	21.111	-1.114	1.00	46.15
ATOM	21267	OH2	WAT	4337	1.111	-6.115	1.113	1.00	36.13
ATOM	21268	OH2	WAT	4338	42.113	18.119	1.119	1.00	34.11
ATOM	21269	OH2	WAT	4339	-10.113	-4.115	1.114	1.00	32.00
ATOM	21270	OH2	WAT	4340	6.113	20.115	1.119	1.00	33.11
ATOM	21271	OH2	WAT	4341	15.114	24.112	1.114	1.00	46.12
ATOM	21272	OH2	WAT	4342	11.119	19.114	1.117	1.00	38.14
ATOM	21273	OH2	WAT	4343	10.111	-39.117	1.115	1.00	44.19
ATOM	21274	OH2	WAT	4344	35.110	-10.113	1.110	1.00	46.18
ATOM	21275	OH2	WAT	4345	3.113	-41.117	1.112	1.00	42.19
ATOM	21276	OH2	WAT	4346	-10.113	42.114	43.114	1.00	30.14
ATOM	21277	OH2	WAT	4347	16.113	51.110	19.113	1.00	38.14
ATOM	21278	OH2	WAT	4348	3.116	14.116	36.110	1.00	38.52
ATOM	21279	OH2	WAT	4349	46.116	37.113	2.110	1.00	37.16
ATOM	21280	OH2	WAT	4350	11.115	42.116	27.117	1.00	35.16

ATOM	21221	OH2	WAT	4351	-17.122	13.946	41.412	1.00	37.12
ATOM	21222	OH2	WAT	4352	-29.129	-17.466	5.755	1.00	37.27
ATOM	21223	OH2	WAT	4353	31.454	-25.540	69.931	1.00	28.84
ATOM	21224	OH2	WAT	4354	29.443	-7.929	-21.949	1.00	31.36
ATOM	21225	OH2	WAT	4355	-16.351	12.532	47.111	1.00	30.21
ATOM	21226	OH2	WAT	4356	12.706	-13.450	21.716	1.00	35.32
ATOM	21227	OH2	WAT	4357	7.648	-13.329	-10.841	1.00	23.89
ATOM	21228	OH2	WAT	4358	44.572	15.736	67.044	1.00	35.34
ATOM	21229	OH2	WAT	4359	-12.511	23.838	12.619	1.00	15.35
ATOM	21230	OH2	WAT	4360	5.058	11.876	-23.716	1.00	41.15
ATOM	21231	OH2	WAT	4361	-14.121	-31.125	22.843	1.00	24.72
ATOM	21232	OH2	WAT	4362	-5.164	-44.318	25.527	1.00	39.16
ATOM	21233	OH2	WAT	4363	30.700	-35.265	45.218	1.00	28.38
ATOM	21234	OH2	WAT	4364	-28.143	-13.634	45.436	1.00	34.76
ATOM	21235	OH2	WAT	4365	36.095	-43.668	27.357	1.00	32.81
ATOM	21236	OH2	WAT	4366	45.633	-16.075	8.161	1.00	27.97
ATOM	21237	OH2	WAT	4367	9.131	1.705	57.134	1.00	17.70
ATOM	21238	OH2	WAT	4368	4.131	32.487	71.128	1.00	14.45
ATOM	21239	OH2	WAT	4369	-18.127	-5.430	-15.436	1.00	19.46
ATOM	21240	OH2	WAT	4370	44.153	-12.975	41.124	1.00	41.84
ATOM	21241	OH2	WAT	4371	-11.121	21.838	12.619	1.00	41.08
ATOM	21242	OH2	WAT	4372	45.141	14.763	27.116	1.00	45.03
ATOM	21243	OH2	WAT	4373	10.133	23.817	71.124	1.00	37.30
ATOM	21244	OH2	WAT	4374	1.040	49.130	1.814	1.00	46.14
ATOM	21245	OH2	WAT	4375	16.128	1.166	-24.143	1.00	19.48
ATOM	21246	OH2	WAT	4376	-13.117	-39.137	24.134	1.00	28.48
ATOM	21247	OH2	WAT	4377	-13.149	-24.151	69.135	1.00	41.50
ATOM	21248	OH2	WAT	4378	17.111	-18.133	35.132	1.00	39.10
ATOM	21249	OH2	WAT	4379	9.113	-1.122	-5.116	1.00	33.81
ATOM	21250	OH2	WAT	4380	-23.113	-5.134	34.130	1.00	19.72
ATOM	21251	OH2	WAT	4381	52.111	2.147	28.139	1.00	11.11
ATOM	21252	OH2	WAT	4382	1.135	6.160	58.131	1.00	33.75
ATOM	21253	OH2	WAT	4383	-31.110	-6.170	19.135	1.00	33.32
ATOM	21254	OH2	WAT	4384	37.111	1.006	69.135	1.00	41.13
ATOM	21255	OH2	WAT	4385	-4.113	-18.136	1.131	1.00	37.16
ATOM	21256	OH2	WAT	4386	4.017	-3.119	18.134	1.00	32.16
ATOM	21257	OH2	WAT	4387	-21.141	-1.184	2.137	1.00	33.18
ATOM	21258	OH2	WAT	4388	-22.117	1.130	-1.119	1.00	44.13
ATOM	21259	OH2	WAT	4389	39.133	-4.134	21.133	1.00	26.14
ATOM	21260	OH2	WAT	4390	35.157	-6.185	2.136	1.00	41.11
ATOM	21261	OH2	WAT	4391	-28.115	-1.115	41.137	1.00	44.19
ATOM	21262	OH2	WAT	4392	31.162	1.141	61.136	1.00	33.81
ATOM	21263	OH2	WAT	4393	-15.197	1.125	2.130	1.00	39.14
ATOM	21264	OH2	WAT	4394	-15.150	-25.101	2.134	1.00	25.17
ATOM	21265	OH2	WAT	4395	2.130	13.180	-4.131	1.00	34.76
ATOM	21266	OH2	WAT	4396	41.147	-2.147	5.148	1.00	35.17
ATOM	21267	OH2	WAT	4397	48.129	36.156	21.132	1.00	41.19
ATOM	21268	OH2	WAT	4398	11.100	12.156	40.131	1.00	41.21
ATOM	21269	OH2	WAT	4399	4.107	-12.145	-1.132	1.00	33.12
ATOM	21270	OH2	WAT	4400	-27.100	3.172	1.121	1.00	33.15
ATOM	21271	OH2	WAT	4401	-7.172	3.184	3.138	1.00	32.13
ATOM	21272	OH2	WAT	4402	-20.153	13.197	4.137	1.00	34.10
ATOM	21273	OH2	WAT	4403	39.172	-14.113	5.137	1.00	31.12
ATOM	21274	OH2	WAT	4404	29.139	12.185	1.136	1.00	44.15
ATOM	21275	OH2	WAT	4405	35.180	-22.141	1.140	1.00	31.12
ATOM	21276	OH2	WAT	4406	-35.145	-12.185	2.130	1.00	34.19
ATOM	21277	OH2	WAT	4407	15.113	26.197	1.174	1.00	11.15
ATOM	21278	OH2	WAT	4408	6.133	17.140	1.128	1.00	41.19
ATOM	21279	OH2	WAT	4409	-10.132	16.110	1.125	1.00	31.13
ATOM	21280	OH2	WAT	4410	55.163	6.131	1.181	1.00	41.10
ATOM	21281	OH2	WAT	4411	27.143	-6.185	1.133	1.00	31.13
ATOM	21282	OH2	WAT	4412	11.132	-31.175	1.130	1.00	31.13
ATOM	21283	OH2	WAT	4413	27.133	9.182	4.135	1.00	48.10
ATOM	21284	OH2	WAT	4414	1.116	-4.001	1.176	1.00	38.10
ATOM	21285	OH2	WAT	4415	-7.158	6.138	1.129	1.00	1.18
ATOM	21286	OH2	WAT	4416	13.121	19.197	1.179	1.00	41.19
ATOM	21287	OH2	WAT	4417	18.127	7.166	-1.153	1.00	4.17
ATOM	21288	OH2	WAT	4418	27.104	25.135	15.168	1.00	34.17
ATOM	21289	OH2	WAT	4419	6.162	-32.129	41.176	1.00	4.17
ATOM	21290	OH2	WAT	4420	12.167	-1.174	3.133	1.00	1.17
ATOM	21291	OH2	WAT	4421	1.140	29.127	14.156	1.00	34.19
ATOM	21292	OH2	WAT	4422	6.124	-43.151	10.134	1.00	28.14
ATOM	21293	OH2	WAT	4423	-16.107	33.191	15.134	1.00	4.17
ATOM	21294	OH2	WAT	4424	1.132	13.178	67.144	1.00	3.17
ATOM	21295	OH2	WAT	4425	-12.184	-9.179	14.173	1.00	38.17
ATOM	21296	OH2	WAT	4426	52.164	31.015	13.016	1.00	32.17
ATOM	21297	OH2	WAT	4427	18.168	-33.144	-19.173	1.00	4.17

ATOM	21358	OH2	WAT	4428	29.674	26.370	37.226	1.00	43.83
ATOM	21359	OH2	WAT	4429	17.314	-33.128	69.819	1.00	36.98
ATOM	21360	OH2	WAT	4430	10.556	1.415	11.566	1.00	46.32
ATOM	21361	OH2	WAT	4431	8.523	41.333	58.843	1.00	39.73
ATOM	21362	OH2	WAT	4432	33.163	23.763	33.373	1.00	28.81
ATOM	21363	OH2	WAT	4433	15.155	-18.491	-11.040	1.00	47.32
ATOM	21364	OH2	WAT	4434	-23.336	2.034	36.535	1.00	34.09
ATOM	21365	OH2	WAT	4435	19.214	11.145	-11.435	1.00	39.87
ATOM	21366	OH2	WAT	4436	27.151	-31.740	67.562	1.00	31.45
ATOM	21367	OH2	WAT	4437	-26.971	-11.232	12.183	1.00	47.65
ATOM	21368	OH2	WAT	4438	16.674	12.470	64.516	1.00	44.17
ATOM	21369	OH2	WAT	4439	-11.815	46.555	27.756	1.00	41.21
ATOM	21370	OH2	WAT	4440	-18.854	1.585	28.146	1.00	32.42
ATOM	21371	OH2	WAT	4441	17.115	0.453	50.867	1.00	40.87
ATOM	21372	OH2	WAT	4442	46.616	-22.499	-3.435	1.00	40.16
ATOM	21373	OH2	WAT	4443	14.311	25.984	34.711	1.00	31.11
ATOM	21374	OH2	WAT	4444	-11.725	-17.791	1.640	1.00	27.78
ATOM	21375	OH2	WAT	4445	-34.361	-22.157	26.213	1.00	41.21
ATOM	21376	OH2	WAT	4446	24.661	21.141	3.311	1.00	27.13
ATOM	21377	OH2	WAT	4447	15.531	6.315	63.214	1.00	38.86
ATOM	21378	OH2	WAT	4448	19.314	21.335	71.338	1.00	44.16
ATOM	21379	OH2	WAT	4449	-11.177	27.621	-8.364	1.00	17.12
ATOM	21380	OH2	WAT	4450	22.345	0.986	11.511	1.00	31.11
ATOM	21381	OH2	WAT	4451	-10.113	-2.144	1.110	1.00	36.84
ATOM	21382	OH2	WAT	4452	16.140	25.822	1.214	1.00	31.10
ATOM	21383	OH2	WAT	4453	44.361	31.241	15.336	1.00	31.89
ATOM	21384	OH2	WAT	4454	34.177	-25.115	11.510	1.00	34.11
ATOM	21385	OH2	WAT	4455	-23.114	-24.101	11.569	1.00	31.12
ATOM	21386	OH2	WAT	4456	5.311	-56.124	11.411	1.00	41.10
ATOM	21387	OH2	WAT	4457	2.101	11.167	10.843	1.00	41.15
ATOM	21388	OH2	WAT	4458	11.011	41.161	11.152	1.00	31.10
ATOM	21389	OH2	WAT	4459	-11.111	-11.156	11.143	1.00	41.10
ATOM	21390	OH2	WAT	4460	11.111	11.136	11.135	1.00	41.10
ATOM	21391	OH2	WAT	4461	21.141	11.465	16.139	1.00	31.11
ATOM	21392	OH2	WAT	4462	11.111	41.141	10.491	1.00	11.13
ATOM	21393	OH2	WAT	4463	-11.111	-50.181	16.507	1.00	31.17
ATOM	21394	OH2	WAT	4464	-11.111	11.148	46.138	1.00	11.14
ATOM	21395	OH2	WAT	4465	41.111	11.124	11.119	1.00	31.18
ATOM	21396	OH2	WAT	4466	11.111	-40.137	11.118	1.00	11.14
ATOM	21397	OH2	WAT	4467	-21.111	-21.171	11.116	1.00	41.17
ATOM	21398	OH2	WAT	4468	-21.111	-11.181	11.120	1.00	11.17
ATOM	21399	OH2	WAT	4469	-41.111	41.121	11.114	1.00	41.10
ATOM	21400	OH2	WAT	4470	11.111	11.158	-41.111	1.00	31.13
ATOM	21401	OH2	WAT	4471	41.111	16.143	-11.114	1.00	11.12
ATOM	21402	OH2	WAT	4472	11.111	-21.124	1.108	1.00	16.11
ATOM	21403	OH2	WAT	4473	31.111	-41.111	11.115	1.00	11.14
ATOM	21404	OH2	WAT	4474	-11.111	11.141	11.116	1.00	11.15
ATOM	21405	OH2	WAT	4475	41.111	11.151	10.116	1.00	16.15
ATOM	21406	OH2	WAT	4476	21.111	-21.112	-10.111	1.00	11.15
ATOM	21407	OH2	WAT	4477	-21.111	41.111	-11.112	1.00	11.16
ATOM	21408	OH2	WAT	4478	41.111	-21.111	47.114	1.00	11.11
ATOM	21409	OH2	WAT	4479	-11.111	10.111	11.112	1.00	47.15
ATOM	21410	OH2	WAT	4480	11.111	11.162	17.117	1.00	11.19
ATOM	21411	OH2	WAT	4481	-11.111	11.145	-11.117	1.00	11.13
ATOM	21412	OH2	WAT	4482	49.115	11.151	18.117	1.00	17.11
ATOM	21413	OH2	WAT	4483	-15.111	41.151	7.112	1.00	11.11
ATOM	21414	OH2	WAT	4484	4.111	-21.151	5.117	1.00	16.18
ATOM	21415	OH2	WAT	4485	50.112	-11.164	-0.117	1.00	17.10
ATOM	21416	OH2	WAT	4486	2.111	-11.115	17.116	1.00	11.13
ATOM	21417	OH2	WAT	4487	-8.114	11.117	10.118	1.00	17.13
ATOM	21418	OH2	WAT	4488	0.113	-21.121	10.113	1.00	17.15
ATOM	21419	OH2	WAT	4489	17.112	11.112	9.118	1.00	11.16
ATOM	21420	OH2	WAT	4490	31.116	-41.112	11.114	1.00	11.15
ATOM	21421	OH2	WAT	4491	50.1125	-11.120	11.115	1.00	11.14
ATOM	21422	OH2	WAT	4492	-11.1156	11.118	11.114	1.00	11.13
ATOM	21423	OH2	WAT	4493	21.1177	-41.119	11.115	1.00	11.15
ATOM	21424	OH2	WAT	4494	9.1159	-11.115	11.116	1.00	11.15
ATOM	21425	OH2	WAT	4495	-11.1163	11.112	41.112	1.00	11.15
ATOM	21426	OH2	WAT	4496	16.1195	11.113	-20.119	1.00	11.11
ATOM	21427	OH2	WAT	4497	26.1113	11.113	51.115	1.00	11.15
ATOM	21428	OH2	WAT	4498	-21.1173	11.119	11.115	1.00	11.15
ATOM	21429	OH2	WAT	4499	1.1117	-10.1155	71.117	1.00	11.15
ATOM	21430	OH2	WAT	4500	-11.1132	11.113	-11.113	1.00	11.15
ATOM	21431	OH2	WAT	4501	41.1171	-10.1160	11.113	1.00	11.11
ATOM	21432	OH2	WAT	4502	1.1145	16.1148	11.112	1.00	11.11
ATOM	21433	OH2	WAT	4503	1.1143	-10.1186	11.112	1.00	11.11
ATOM	21434	OH2	WAT	4504	51.1105	11.1126	11.114	1.00	11.11

ATOM	21435	OH2	WAT	4505	31.760	-29.715	16.803	1.00	42.71
ATOM	21436	OH2	WAT	4506	27.158	-0.519	-2.171	1.00	47.55
ATOM	21437	OH2	WAT	4507	16.391	-6.880	13.945	1.00	27.93
ATOM	21438	OH2	WAT	4508	-11.329	8.325	33.144	1.00	35.74
ATOM	21439	OH2	WAT	4509	-34.565	-18.654	21.647	1.00	41.73
ATOM	21440	OH2	WAT	4510	8.119	2.472	45.194	1.00	35.83
ATOM	21441	OH2	WAT	4511	26.135	-26.376	1.441	1.00	47.41
ATOM	21442	OH2	WAT	4512	6.185	13.143	27.334	1.00	28.63
ATOM	21443	OH2	WAT	4513	15.834	-35.849	46.381	1.00	34.03
ATOM	21444	OH2	WAT	4514	52.437	25.745	6.487	1.00	41.04
ATOM	21445	OH2	WAT	4515	5.345	4.118	14.468	1.00	33.27
ATOM	21446	OH2	WAT	4516	53.262	6.451	39.554	1.00	38.27
ATOM	21447	OH2	WAT	4517	1.590	-4.443	-22.357	1.00	33.17
ATOM	21448	OH2	WAT	4518	49.556	-1.588	49.431	1.00	34.60
ATOM	21449	OH2	WAT	4519	-28.945	3.556	61.373	1.00	43.53
ATOM	21450	OH2	WAT	4520	-12.490	17.160	20.670	1.00	39.70
ATOM	21451	OH2	WAT	4521	40.318	-5.531	38.596	1.00	26.43
ATOM	21452	OH2	WAT	4522	10.599	-5.808	63.636	1.00	27.53
ATOM	21453	OH2	WAT	4523	-5.893	-42.115	6.381	1.00	42.03
ATOM	21454	OH2	WAT	4524	39.103	-0.791	45.421	1.00	36.74
ATOM	21455	OH2	WAT	4525	41.372	0.678	-15.445	1.00	37.63
ATOM	21456	OH2	WAT	4526	14.586	15.973	30.328	1.00	39.83
ATOM	21457	OH2	WAT	4527	-32.519	27.143	45.607	1.00	45.34
ATOM	21458	OH2	WAT	4528	-11.576	3.521	-21.126	1.00	26.73
ATOM	21459	OH2	WAT	4529	-2.842	24.671	13.955	1.00	37.04
ATOM	21460	OH2	WAT	4530	36.313	-37.179	7.390	1.00	36.33
ATOM	21461	OH2	WAT	4531	8.937	41.604	67.559	1.00	44.33
ATOM	21462	OH2	WAT	4532	6.771	-15.355	30.910	1.00	35.33
ATOM	21463	OH2	WAT	4533	2.532	-30.744	64.478	1.00	32.17
ATOM	21464	OH2	WAT	4534	14.112	25.572	3.618	1.00	45.14
ATOM	21465	OH2	WAT	4535	20.990	5.178	-44.321	1.00	46.13
ATOM	21466	OH2	WAT	4536	17.449	-9.117	65.682	1.00	44.33
ATOM	21467	OH2	WAT	4537	6.211	-17.310	34.869	1.00	34.13
ATOM	21468	OH2	WAT	4538	17.967	11.313	65.196	1.00	45.33
ATOM	21469	OH2	WAT	4539	-13.638	31.716	32.528	1.00	48.13
ATOM	21470	OH2	WAT	4540	-33.249	-5.612	1.553	1.00	34.13
ATOM	21471	OH2	WAT	4541	-7.066	28.532	37.518	1.00	37.13
ATOM	21472	OH2	WAT	4542	23.003	24.435	17.044	1.00	35.13
ATOM	21473	OH2	WAT	4543	-3.469	27.184	73.860	1.00	38.13
ATOM	21474	OH2	WAT	4544	33.891	29.039	44.547	1.00	41.13
ATOM	21475	OH2	WAT	4545	18.860	-1.019	10.975	1.00	31.13
ATOM	21476	OH2	WAT	4546	-19.212	-0.610	34.779	1.00	23.13
ATOM	21477	OH2	WAT	4547	-18.013	-8.734	-10.867	1.00	40.13
ATOM	21478	OH2	WAT	4548	5.835	-15.345	20.455	1.00	23.13
ATOM	21479	OH2	WAT	4549	42.287	-4.379	41.504	1.00	27.13
ATOM	21480	OH2	WAT	4550	38.305	9.457	71.347	1.00	18.13
ATOM	21481	OH2	WAT	4551	-11.381	38.633	24.989	1.00	13.13
ATOM	21482	OH2	WAT	4552	-22.360	2.492	33.226	1.00	15.13
ATOM	21483	OH2	WAT	4553	6.951	-6.329	41.554	1.00	41.13
ATOM	21484	OH2	WAT	4554	13.682	-8.717	56.797	1.00	15.13
ATOM	21485	OH2	WAT	4555	38.336	-36.163	63.243	1.00	15.13
ATOM	21486	OH2	WAT	4556	94.384	7.723	12.240	1.00	33.13
ATOM	21487	OH2	WAT	4557	-28.517	7.731	49.621	1.00	40.13
ATOM	21488	OH2	WAT	4558	17.635	9.000	18.591	1.00	42.13
ATOM	21489	OH2	WAT	4559	-12.759	20.162	7.607	1.00	32.13
ATOM	21490	OH2	WAT	4560	-32.132	40.353	51.371	1.00	40.13
ATOM	21491	OH2	WAT	4561	13.431	-17.321	20.394	1.00	14.13
ATOM	21492	OH2	WAT	4562	9.509	14.684	21.847	1.00	18.13
ATOM	21493	OH2	WAT	4563	19.197	17.419	37.743	1.00	34.13
ATOM	21494	OH2	WAT	4564	8.296	41.020	10.963	1.00	40.13
ATOM	21495	OH2	WAT	4565	6.824	16.093	-17.193	1.00	45.13
ATOM	21496	OH2	WAT	4566	-31.651	-18.616	6.729	1.00	46.13
ATOM	21497	OH2	WAT	4567	-12.020	45.667	54.682	1.00	41.13
ATOM	21498	OH2	WAT	4568	-15.624	5.147	-20.431	1.00	37.13
ATOM	21499	OH2	WAT	4569	34.171	-25.827	-7.631	1.00	38.13
ATOM	21500	OH2	WAT	4570	11.561	16.348	28.219	1.00	31.13
ATOM	21501	OH2	WAT	4571	14.997	11.383	6.789	1.00	44.13
ATOM	21502	OH2	WAT	4572	-19.414	-31.785	28.616	1.00	33.13
ATOM	21503	OH2	WAT	4573	30.687	11.477	59.321	1.00	36.13
ATOM	21504	OH2	WAT	4574	206.171	8.305	-8.133	1.00	43.13
ATOM	21505	OH2	WAT	4575	223.907	-0.146	0.147	1.00	47.13
ATOM	21506	OH2	WAT	4576	36.479	8.379	20.398	1.00	46.13
ATOM	21507	OH2	WAT	4577	9.302	15.334	14.884	1.00	17.13
ATOM	21508	OH2	WAT	4578	22.518	-41.659	12.185	1.00	41.13
ATOM	21509	OH2	WAT	4579	36.133	15.618	25.314	1.00	36.13
ATOM	21510	OH2	WAT	4580	20.941	19.630	24.229	1.00	35.13
ATOM	21511	OH2	WAT	4581	29.489	11.596	-4.410	1.00	31.13

ATCM	21512	OH2	WAT	4582	33.238	34.672	55.740	1.00	46.22
ATCM	21513	OH2	WAT	4583	-30.816	-5.894	17.338	1.00	49.72
ATCM	21514	OH2	WAT	4584	19.340	-28.094	76.769	1.00	34.85
ATCM	21515	OH2	WAT	4585	-2.139	15.453	30.418	1.00	40.59
ATCM	21516	OH2	WAT	4586	4.239	-17.186	76.947	1.00	48.31
ATCM	21517	OH2	WAT	4587	-0.036	-14.038	25.797	1.00	11.21
ATCM	21518	OH2	WAT	4588	29.067	-1.678	2.080	1.00	24.42
ATCM	21519	OH2	WAT	4589	-5.344	11.926	31.843	1.00	29.45
ATCM	21520	OH2	WAT	4590	-3.000	-4.011	-20.507	1.00	33.38
ATCM	21521	OH2	WAT	4591	16.416	-74.157	15.726	1.00	32.70
ATCM	21522	OH2	WAT	4592	42.496	30.507	62.293	1.00	31.93
ATCM	21523	OH2	WAT	4593	45.544	-3.876	0.668	1.00	37.84
ATCM	21524	OH2	WAT	4594	4.284	25.647	44.151	1.00	46.08
ATCM	21525	OH2	WAT	4595	28.936	0.551	-17.647	1.00	49.26
ATCM	21526	OH2	WAT	4596	28.309	-1.764	-7.213	1.00	34.20
ATCM	21527	OH2	WAT	4597	-0.133	-4.683	-4.704	1.00	40.66
ATCM	21528	OH2	WAT	4598	38.002	-19.295	28.777	1.00	37.91
ATCM	21529	OH2	WAT	4599	1.896	-10.498	36.814	1.00	40.28
ATCM	21530	OH2	WAT	4600	10.875	-71.101	46.217	1.00	46.59
ATCM	21531	OH2	WAT	4601	-15.789	11.791	42.547	1.00	40.33
ATCM	21532	OH2	WAT	4602	1.1381	-14.121	45.507	1.00	43.03
ATCM	21533	OH2	WAT	4603	15.546	2.611	48.753	1.00	34.38
ATCM	21534	OH2	WAT	4604	-24.408	-0.967	68.817	1.00	44.14
ATCM	21535	OH2	WAT	4605	27.530	8.531	-3.113	1.00	46.99
ATCM	21536	OH2	WAT	4606	-5.207	-2.677	-4.358	1.00	37.50
ATCM	21537	OH2	WAT	4607	-6.846	-4.949	54.528	1.00	33.19
ATCM	21538	OH2	WAT	4608	-8.773	-28.684	66.448	1.00	41.34
ATCM	21539	OH2	WAT	4609	19.634	-33.793	11.109	1.00	47.89
ATCM	21540	OH2	WAT	4610	25.739	7.699	-4.733	1.00	38.98
ATCM	21541	OH2	WAT	4611	-25.724	-20.112	42.518	1.00	44.59
ATCM	21542	OH2	WAT	4612	30.872	-53.539	20.326	1.00	48.78
ATCM	21543	OH2	WAT	4613	7.035	-17.629	0.602	1.00	47.16
ATCM	21544	OH2	WAT	4614	-20.076	21.041	2.976	1.00	50.56
ATCM	21545	OH2	WAT	4615	49.790	17.372	-5.207	1.00	53.08
ATCM	21546	OH2	WAT	4616	45.033	0.193	-5.524	1.00	36.67
ATCM	21547	OH2	WAT	4617	3.384	12.364	26.877	1.00	47.24
ATCM	21548	OH2	WAT	4618	-23.460	-11.122	39.780	1.00	36.49
ATCM	21549	OH2	WAT	4619	36.510	-18.231	-14.048	1.00	44.41
ATCM	21550	OH2	WAT	4620	27.674	11.270	60.667	1.00	36.19
ATCM	21551	OH2	WAT	4621	-25.671	-31.027	5.734	1.00	35.54
ATCM	21552	OH2	WAT	4622	-33.918	-10.844	11.974	1.00	43.33

END

Table 2. Crystallographic data quality, phasing, refinement and model quality

Space group & Cell parameters (Å)		$P2_1$: $a = 87.8$, $b = 155.4$, $c = 209.9$, $\beta = 99.3^\circ$			$P2_1$: $a = 86.1$, $b = 157.2$, $c = 160.2$, $\beta = 97.4^\circ$	
Data quality						
Data set	Edge	Peak	Remote	Native		
Wavelength (Å)	0.97930	0.97927	0.9393	0.979		
Limiting resolution (Å)	3.1	2.8	2.8	1.8		
R_{free}^a	0.161	0.120	0.131	0.103		
$<1/\sigma >$ (high resolution)	12.8 (2.6)	25.6 (6.0)	13.3 (3.3)	15.9 (2.1)		
Completeness	0.994	0.999	1.0	0.94		
No. unique reflections (multiplicity)	100 734 (3.5)	136 609 (10.6)	136 664 (3.3)	229 086 (4.5)		
Experimental f' (electrons) ^b	9.9, 2.9	-8.6, -5.4	1.3, -3.2			
Refinement (40 – 1.7 Å)						
R_{obs}^c	0.229 (highest resolution)		0.286			
R_{int}^d	0.263 ()		0.318			
No. reflections: working, test ^e	206 168 / 22 908					
No. atoms (residues)	19 820 (2 640)					
No. waters	1 610					
Model quality						
Ramachandran plot: ϕ residues favourable			90.4			
ϕ unfavourable			None			
R.m.s. deviations:	Bond lengths		0.006			
	Bond angles		1.2			
	Dihedral angles		22.1			

^a $R_{\text{obs}} = [\sum w |F_o - F_c|] / \sum w |F_o|$, where $w = 1 / [\sigma(F_o)]^2$. This is the multiplicity-weighted R_{obs} [Diederichs, 1997 #155].^b Estimates from CHOOCH (Evans, 1999).^c $R_{\text{obs}} = \sum |F_o - F_c| / \sum F_o$. F_o and F_c are observed and calculated structure factor amplitudes.^d R_{int} cross-validation R_{int} calculated using randomly selected test data not used in refinement.